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OCS Information Report
MMS 85-0043

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# Gulf of Mexico Index

## August 1983 - October 1984

ORIGINAL

Outer Continental Shelf Oil and Gas Information Program
U.S. Department of the Interior/Minerals Management Service

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For information regarding this Gulf of Mexico Index and for copies of this and future editions of the Index, contact the following office:

OCS Information Program
Office of Offshore Information Services
Minerals Management Service
1951 Kidwell Drive, Suite 601
Vienna, VA 22180
(703) 285-2285

The Minerals Management Service documents referred to in this Index are available for inspection at the following office:

Minerals Management Service
Gulf of Mexico Regional Office
3301 N. Causeway Boulevard
P.O. Box 7944
Metairie, LA 70010
(504) 837-4720

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# Gulf of Mexico Index

## August 1983 - October 1984

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Prepared for the
Outer Continental Shelf Oil and Gas Information Program
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## U.S. Customary - International System (SI) Conversion

| Multiply English units | by | to obtain SI metric units |
|---|---|---|
| feet | 0.3048 | meters |
| statute miles | 1.6093 | kilometers |
| geographic (nautical) miles | 1.8520 | kilometers |
| acres | 0.4047 | hectares |

**NOTE:** Distances on the Federal Outer Continental Shelf and on land are measured in statute miles. Within the State-owned offshore areas, distances are measured in geographic miles.

## Abbreviations and Acronyms

| | | |
|---|---|---|
| APD | - | Application for Permit to Drill, Form MMS-331C |
| CER | - | categorical exclusion review |
| CFR | - | Code of Federal Regulations |
| COST | - | Continental Offshore Stratigraphic Test |
| CZM | - | coastal zone management |
| CZMA | - | Coastal Zone Management Act |
| DEIS | - | draft environmental impact statement |
| DOCD | - | development operations coordination document |
| DOI | - | Department of the Interior |
| DOT | - | Department of Transportation |
| DST | - | Deep Stratigraphic Test |
| EA | - | environmental assessment |
| EIS | - | environmental impact statement |
| EPA | - | Environmental Protection Agency |
| ER | - | environmental report |
| FEIS | - | final environmental impact statement |
| FONSI | - | finding of no significant impact |
| FR | - | Federal Register |
| MER | - | Maximum Efficiency Recovery |
| MMS | - | Minerals Management Service |
| MOU | - | Memorandum of Understanding |
| NEPA | - | National Environmental Policy Act of 1969 |
| NOI | - | notice of intent |
| NPDES | - | National Pollutant Discharge Elimination System |
| NTL | - | Notice to Lessee |
| OCS | - | Outer Continental Shelf |
| OCSIP | - | Outer Continental Shelf Information Program |
| OCSLA | - | Outer Continental Shelf Lands Act |
| OPD | - | official protraction diagram |
| RTWG | - | Regional Technical Working Group |
| SID | - | Secretarial Issue Document |
| U.S.C. | - | United States Code |
| USCG | - | U.S. Coast Guard |
| USGS | - | U.S. Geological Survey |



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# Introduction

As part of the multiple-use management of the resources of the U.S. Outer Continental Shelf (OCS), the Department of the Interior (DOI) conducts a leasing program for offshore oil-and-gas development. This program is intended to assist in achieving national economic and energy policy goals, to ensure national security, to reduce our dependence on foreign energy sources, and to maintain a favorable balance of payments in world trade. The DOI manages and regulates many of the activities that relate to leasing, exploration, development, and production of these offshore mineral resources. The authority to conduct these activities was delegated by Congress to the Secretary of the Interior under the Outer Continental Shelf Lands Act (OCSLA) of 1953 (43 U.S.C. 1331-1356), as amended in 1978 (43 U.S.C. 1801-1866). Many related responsibilities were assigned to the Minerals Management Service (MMS) on January 19, 1982, when the Secretary of the Interior issued Secretarial Order 3071, separating the Conservation Division from the U.S. Geological Survey (USGS) to form MMS.

On May 10, 1982, the Secretary expanded the responsibilities of MMS by amending Order 3071 to consolidate into MMS all offshore leasing and resource management functions formerly delegated to the Bureau of Land Management. The consolidation was implemented to provide more efficient management of the development of offshore resources. Under the original Order, MMS was supervised by a Minerals Management Board. On December 3, 1982, the Secretary signed Secretarial Order 3087, abolishing the Minerals Management Board and placing MMS under the supervision of the Assistant Secretary for Energy and Minerals Management. Further reorganization with the signing of Secretarial Order 3099, however, placed MMS under the supervision of the Assistant Secretary for Land and Minerals Management.

The OCS Oil and Gas Information Program (OCSIP) was created under section 26 of the OCSLA, as amended in 1978 (43 U.S.C. 1352). On January 12, 1983, the Director of MMS placed OCSIP under the direction of MMS's Office of Offshore Information Services. Authorities and operating procedures related to this program are detailed in the Code of Federal Regulations (CFR) at 30 CFR 252.5 and 30 CFR 256.10(b) (43 CFR 3300 was redesignated as 30 CFR 256 on October 22, 1982).

The OCSIP prepares regional indexes that list relevant, actual or proposed programs, plans, reports, environmental impact statements (EIS), and other lease sale information. The indexes are provided on a regular basis to coastal States and, upon request, to local governments and the public.

The OCSIP has issued three previous editions of the **Gulf of Mexico Index,** covering the following periods:

- January 1978 through November 1980;
- December 1980 through August 1982; and
- September 1982 through July 1983.

This Gulf of Mexico Index, the fourth edition, covers the period from August 1983 through October 1984.



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The OCSIP also issues regional summary reports that provide information about offshore oil-and-gas exploration, development, production, and related onshore activities. This information is intended to assist affected State and local governments in planning for impacts that may result from potential OCS activities.

## CONTENT AND FORMAT OF THE INDEX

**Chapter 1** describes the OCS leasing process from a national perspective, discusses the 5-year leasing program, and presents information on the July 1982 OCS oil-and-gas leasing schedule and the tentative milestone chart issued subsequent to the July 1982 schedule. **Chapter 2** discusses lease sales held in the Gulf of Mexico OCS Region from August 1983 through October 1984 and presents updated information on future sales scheduled for the region. **Chapter 3** describes the steps in the pre- and postlease processes. Information on relevant documents produced from August 1983 through October 1984 are provided in tabular form. **Chapter 4** reports on the ongoing MMS programs that support the OCS leasing process. The **appendixes** include directories of Federal and State OCS-related contacts and other information pertinent to the OCS leasing process.

Except when otherwise noted, all the documents listed within this Index, including pre- and postlease documents and OCS leasing maps or official protraction diagrams, are available as of October 31, 1984, for public inspection during office hours at the following MMS office:

Minerals Management Service
Gulf of Mexico Regional Office
P.O. Box 7944
3301 N. Causeway Boulevard
Metairie, LA 70010
(504) 837-4720

A fee may be charged for copies of some materials. Also, presale EISs can be reviewed at selected depository and other designated libraries. A partial listing of depository libraries is located in appendix C, p. 75.

In the Gulf of Mexico OCS Region, MMS uses two types of maps to locate OCS leasing units or blocks. In nearshore areas of Texas and Louisiana, extensions of onshore leasing grids are used. These grids are the Texas (Lambert) Plane Coordinate System, South and South-Central Zone, and the Louisiana (Lambert) Plane Coordinate System, South Zone. The remainder of the Gulf of Mexico OCS is mapped on **official protraction diagrams** (OPD) using the Universal Transverse Mercator System. Each OPD on the Gulf of Mexico OCS covers an area of approximately 1° latitude by 2° longitude and is divided into blocks. For the most part, each regular large block in the Gulf of Mexico OCS Region contains 5,760 acres or 5,000 acres, and each regular small block contains 640 acres. Each leasing map or OPD bears a unique alphanumeric designator and, in most cases, the name of a nearby city, town, or prominent natural feature. Individual lease blocks, the basic leasing units, are referenced by OPD and block number.

Copies of the Gulf of Mexico OCS leasing maps and OPDs discussed in this report can be ordered through the Gulf of Mexico OCS Regional Office for a nominal fee.

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# 1. The OCS Leasing Process

The OCSLA provides the authority under which the Secretary of the Interior manages mineral operations on the OCS. Regulations implementing the Act establish procedures through which the Secretary exercises these authorities. Title 30, parts 250, 251, 252, and 256 of the CFR, covers the OCS activities administered by the Secretary. Within DOI, MMS has primary responsibility for management of OCS mineral operations. Numerous other State and Federal agencies participate throughout the process.

For purposes of this Index, the OCS leasing process has been broken into a series of 14 steps, which are described in chapter 3. The prelease phase is outlined in figure 1, and the postlease phase is outlined in figure 2.

The purpose of the prelease phase of the process is to select and evaluate areas to be offered for lease within broad geographical planning areas. During this phase, geological, geophysical, and environmental data are continuously collected, analyzed, and refined. The MMS gathers and analyzes these data, develops technical material on potential mineral resources, geologic hazards, and other information relevant to the leasing process, and sponsors biological and socioeconomic studies pertinent to environmental impact assessments. In addition, other Federal and State agencies also provide information appropriate to their areas of expertise, including social and economic data, especially during the preparation of the EIS. The MMS is responsible for coordinating and analyzing all prelease data, for identifying new information needs, and for evaluating comments from State and local governments and the public.

The postlease phase of the OCS leasing process begins once leases have been issued by the MMS regional office. The MMS is responsible for supervising and regulating exploration, development, and production activities on the leased blocks. To this end, MMS is responsible for evaluating Plans of Exploration and Plans of Development and Production; for approving Applications for Permits to Drill under those plans; and, along with other agencies, for granting pipeline permits for the transportation of oil and gas from producing wells.

## OCS OIL-AND-GAS LEASING SCHEDULE

30 CFR 256 (subpart B)

The Secretary of the Interior is responsible for the preparation, maintenance, and periodic revision of a leasing program. The program consists of a schedule of proposed lease sales. This schedule indicates the size, timing, and location of leasing activity that the Secretary determines will best meet national energy needs for a 5-year period following approval of the program. In accordance with section 18(e) of the amended OCSLA, the Secretary reviews the leasing program at least once a year. He may revise and reapprove the program at any time. The program must be developed by considering a number of environmental, economic, and other factors. Further, the Secretary is required to consider the potential for environmental damage, the potential for the discovery of oil and gas, and the potential for adverse impact on the coastal zone.



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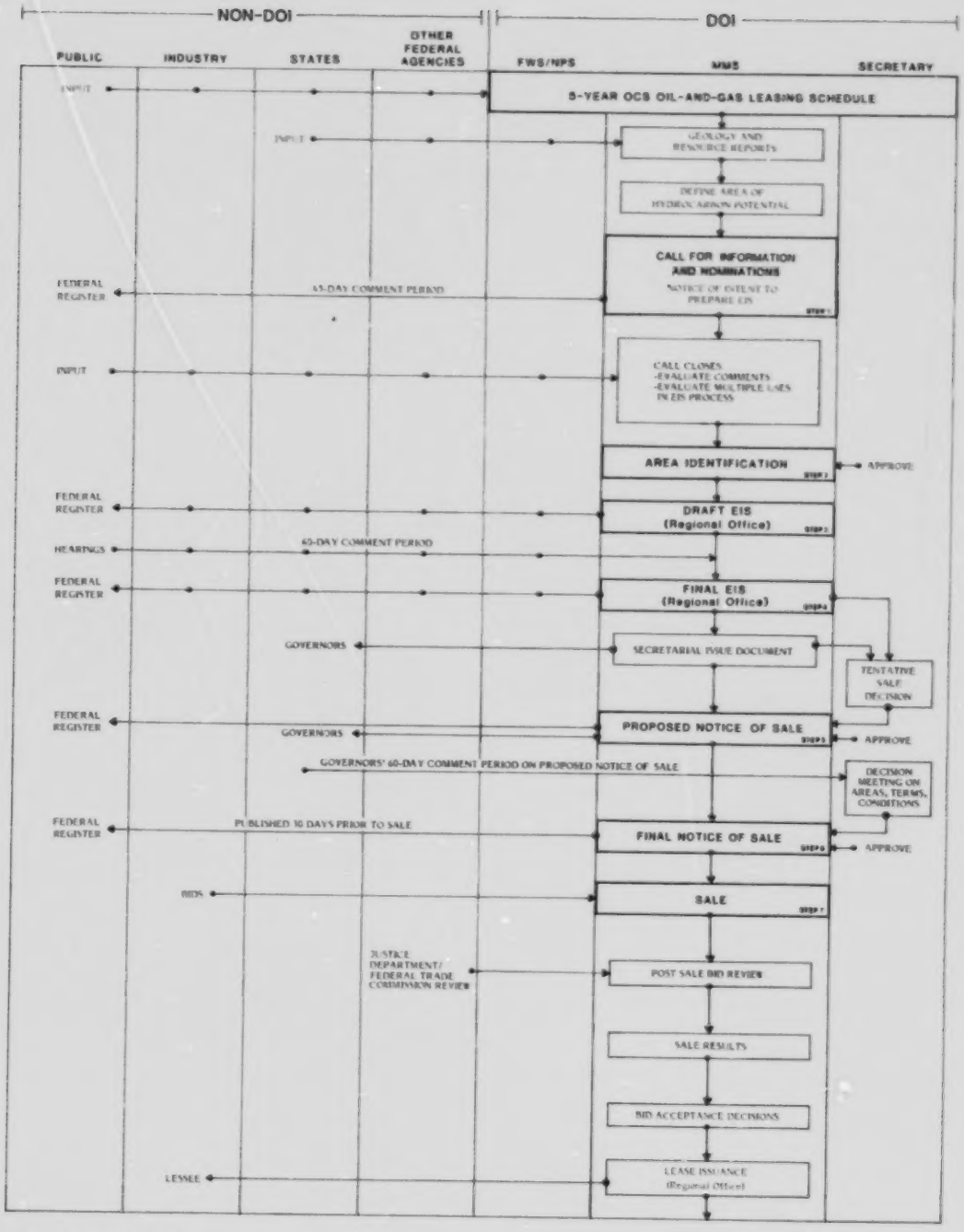


**FIGURE 1.**—OCS leasing process--prelease phase. (MMS, Office of Offshore Information Services, 1985.)

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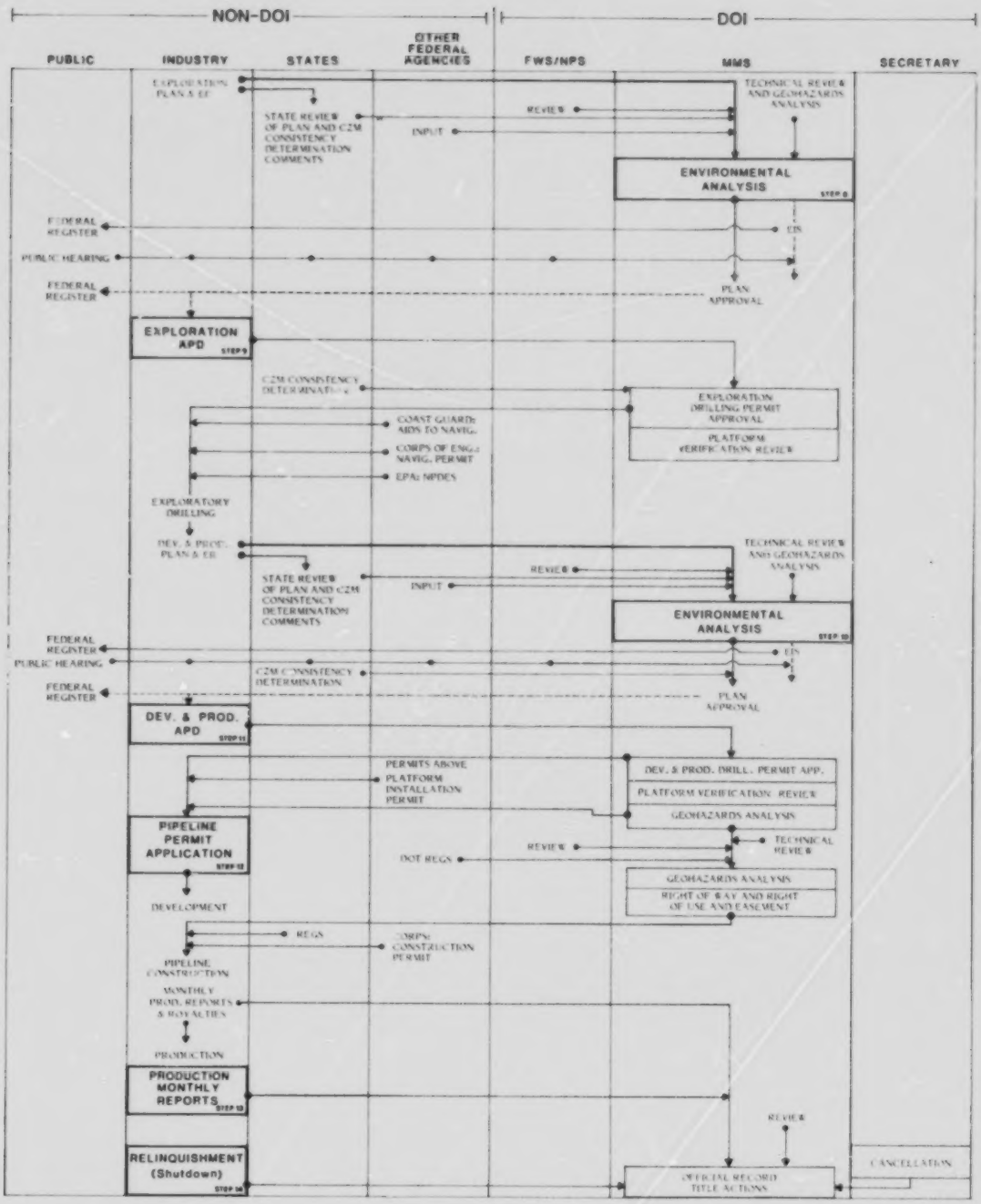


**FIGURE 2.**--OCS leasing process--postlease phase. (MMS, Office of Offshore Information Services, 1985.)

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## Development of the Schedule

Pursuant to the OCSLA Amendments of 1978, regulations (30 CFR 256 subpart B) were published in the **Federal Register** on October 26, 1978 (43 FR 50055), establishing procedures to be followed in developing the 5-year leasing schedule. During preparation of a proposed 5-year leasing program, the Secretary of the Interior is required to invite and consider suggestions and relevant information from all interested parties--Federal agencies, industry, Governors of affected coastal States, local governments (through their States), and the general public.

The request for information is issued as a notice in the **Federal Register.** Comments are requested on the geographical, geological, and ecological characteristics of the broad areas under consideration; other uses of the resources and space of the OCS; identification of areas of environmental sensitivity and marine productivity; and the technological feasibility of, time periods required for, and interest in OCS exploration and development. The Secretary also sends letters to the Governors of affected coastal States, asking them to identify specific laws, goals, and policies they believe should be considered by the Secretary in connection with the leasing program. Also, States that are developing or administering a coastal zone management (CZM) program are requested to supply information concerning the relationship between their CZM programs and potential OCS oil-and-gas activity.

After considering comments and information received, the Secretary prepares a draft proposed leasing program. A notice requesting comments on this proposed leasing program is published in the **Federal Register,** and copies of the program are sent to the Governors of affected coastal States. At least 60 days are provided to the Governors for comment on the draft proposed leasing program. The Governors may solicit comments from local governments that may be affected by the program. The Secretary must respond in writing to any comments made by the Governors if they are received at least 15 days before submission to Congress. Following consideration of these comments, a notice of the proposed leasing program is published in the **Federal Register,** and the proposed leasing program is submitted to coastal State Governors, Congress, and the Attorney General. Public hearings also are held to solicit comments on the 5-year program draft environmental impact statement (DEIS). There is a 90-day comment period on the proposed program.

The Secretary then prepares and submits to the President and Congress the proposed final leasing program, along with any comments received. The submission must indicate why any specific recommendations of the Attorney General or of a State or local government were not accepted. Sixty days after Presidential and congressional notification, the Secretary of the Interior may approve the leasing program and publish it in the **Federal Register.**

## Current Schedule (July 1982)

On July 2, 1982, the Secretary of the Interior approved and announced the "final 5-year OCS oil-and-gas leasing schedule for 1982-87," which included 41 lease sales scheduled from August 1982 to June 1987. Further information on the current schedule is presented in the third edition of this Index (September 1982 - July 1983).

Under the current 5-year leasing program, two developments are of significant interest. First, MMS now issues tentative milestone charts periodically to strengthen communications with the States and other affected parties throughout the leasing process (fig. 3). Second, some of the existing lease sale preparation procedures were modified and clarified. The revisions reflecting administrative and technical changes were made final in a **Federal Register** notice on June 16, 1982 (47 FR 25967-25972). A description of these procedures is presented in chapter 3 of this Index.

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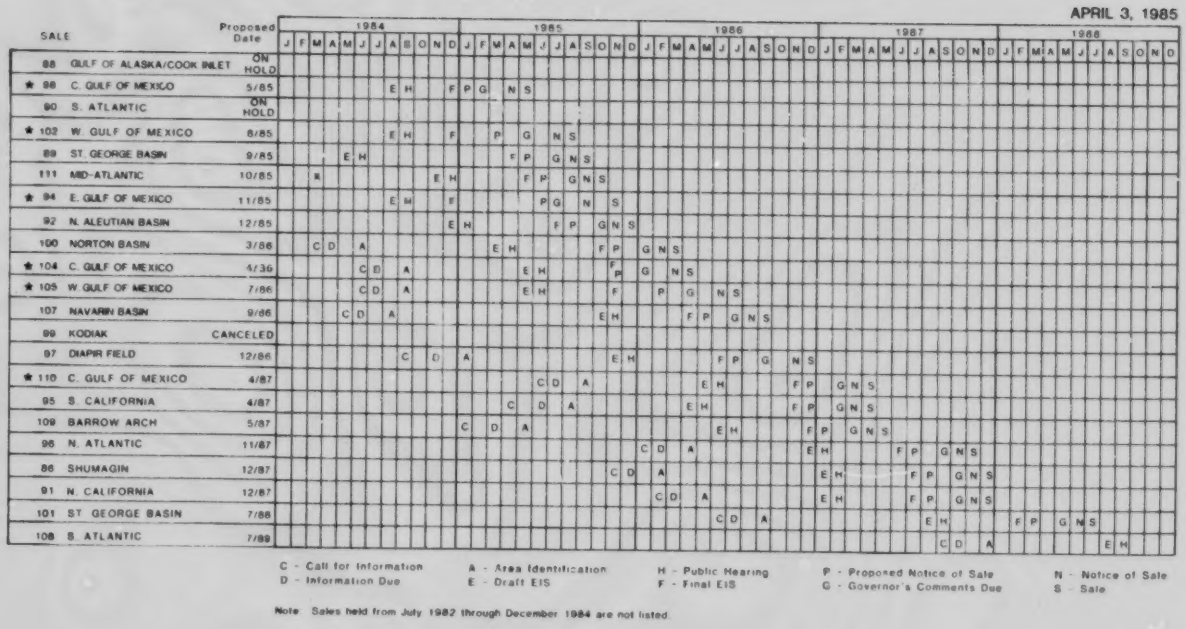
APRIL 3, 1985
SALE
Proposed Date
1984
1985
1986
1987
1988
88 GULF OF ALASKA/COOK INLET ON HOLD
★ 98 C. GULF OF MEXICO 5/85
90 S. ATLANTIC ON HOLD
★ 102 W. GULF OF MEXICO 8/85
89 ST. GEORGE BASIN 9/85
111 MID-ATLANTIC 10/85
★ 94 E. GULF OF MEXICO 11/85
92 N. ALEUTIAN BASIN 12/85
100 NORTON BASIN 3/86
★ 104 C. GULF OF MEXICO 4/36
★ 105 W. GULF OF MEXICO 7/86
107 NAVARIN BASIN 9/86
99 KODIAK CANCELED
97 DIAPIR FIELD 12/86
★ 110 C. GULF OF MEXICO 4/87
95 S. CALIFORNIA 4/87
109 BARROW ARCH 5/87
96 N. ATLANTIC 11/87
86 SHUMAGIN 12/87
91 N. CALIFORNIA 12/87
101 ST. GEORGE BASIN 7/88
106 S. ATLANTIC 7/89
C - Call for Information
D - Information Due
A - Area Identification
E - Draft EIS
H - Public Hearing
F - Final EIS
P - Proposed Notice of Sale
G - Governor's Comments Due
N - Notice of Sale
S - Sale

Note: Sales held from July 1982 through December 1984 are not listed.

**FIGURE 3.**--Tentative milestones for current 5-year oil-and-gas leasing schedule, April 3, 1985. (MMS, 1985.) (Stars indicate lease sales scheduled for the Gulf of Mexico OCS Region. For information on the timing of events leading up to a lease sale, contact the Public Affairs Officer, Gulf of Mexico OCS Region, at (504) 838-0595, or Michele Tetley, Chief, Office of Offshore Information Services, at (202) 343-9314.)

## Proposed Schedule

In accordance with section 18 of the OCSLA, a third 5-year OCS oil-and-gas leasing program is being developed. The new schedule will likely cover the period from mid-1986 to mid-1991.

A notice of request for comments on the development of the new 5-year leasing program was published in the **Federal Register** on July 11, 1984 (49 FR 28332-28336). More than 160 comments were received as a result of the notice, and they were used in the development of the draft proposed leasing program. The preparation process for the new leasing program is expected to take approximately 2 years, with approval of the new leasing program anticipated in late 1986 or early 1987. The draft proposed leasing program was publicly released on March 21, 1985 (50 FR 11585-11595), which was after the closing date for inclusion of information in this report.

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# 2. Lease Sales

The Gulf of Mexico OCS Region includes 139 million acres of submerged lands under Federal jurisdiction, extending from the United States-Mexico border to the Florida Keys. This region is divided into three planning areas: the Western Gulf, which includes 35 million acres of Federal lands off the Texas coast; the Central Gulf, encompassing Federal lands off the Louisiana, Mississippi, and Alabama coasts to the eastern edge of Mobile Bay (a total of 45 million acres); and the Eastern Gulf, which consists of 59 million acres lying off the Florida coast. These planning areas are shown in figures 4, 5, and 6. Figures 7, 8, and 9 show the locations of active leases in the Western, Central, and Eastern Gulf of Mexico Planning Areas, respectively.

There have been 51 oil and gas lease sales in the Gulf of Mexico since Federal OCS oil-and-gas leasing began in 1954. For a history of lease sales in the Gulf Region, see table 1. Of these sales, 17 have been held after the 1978 amendments to the OCSLA formalized the current steps in the leasing process. Seven lease sales have been held for the Gulf of Mexico OCS Region under the present DOI 5-year leasing schedule (July 1982): Lease Sales 72 and 81 covered the Central Gulf; Sales 74 and 84 covered the Western Gulf; Sales 69, Part 2, and 79 covered the Eastern Gulf; and Sale 69, Part 1, covered portions of both the Central and Western Gulf. All but the two parts of Sale 69 were offered under DOI's new areawide leasing program. An additional six sales are planned from 1985 to 1987. These are outlined in the most recent tentative milestone chart (see fig. 3, p. 7) which summarizes and updates the July 1982 5-year schedule.

The following is a list of lease sale histories covered in previous Gulf of Mexico Indexes:

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 45 through 62;
- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales A66 through 67; and
- **Gulf of Mexico Index (September 1982 - July 1983):** Parts 1 and 2 of Lease Sale 69 and Lease Sale 72.

This fourth edition of the Index contains a brief history of **Lease Sales 74, 79, 81,** and **84,** as well as an account of the presale events for **Sales 98, 102, 94, 104, 105,** and **110.**

## RECENT SALES

### Western Gulf of Mexico Lease Sale 74 (August 1983)

Lease Sale 74, the first areawide sale in the Western Gulf, offered 5,848 blocks covering 33 million acres of unleased OCS acreage. The August 24, 1983, sale yielded a total of $1.5 billion in accepted high bids. More than half of the 436 blocks receiving bids were located in shallow waters, less than 150 feet deep. Sixteen blocks were in water depths greater than 3,000 feet. The deepest block receiving bids was in 3,800 feet of water. Of the 436 blocks that received bids, 406 were leased.



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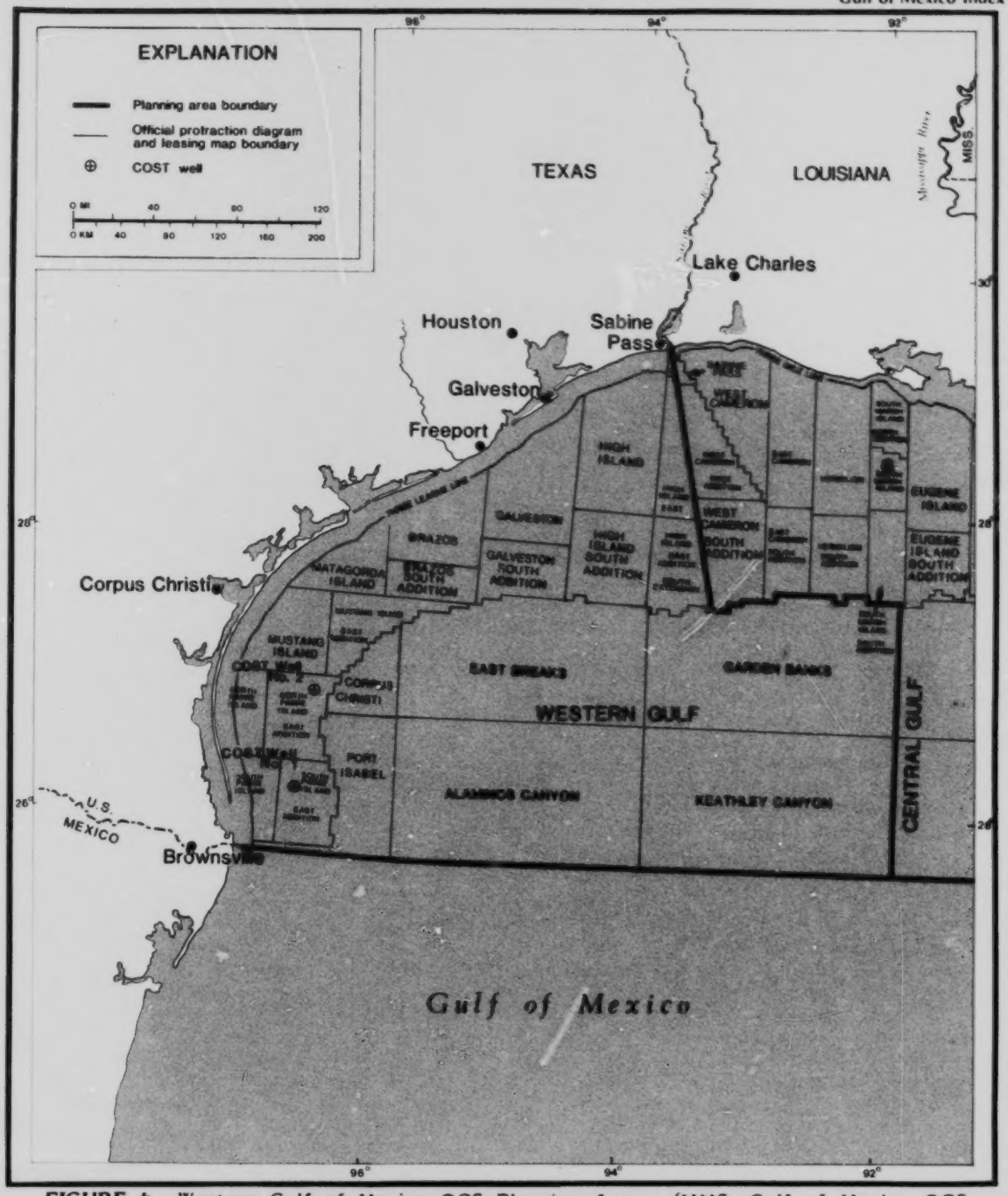


**FIGURE 4.**—Western Gulf of Mexico OCS Planning Area. (MMS, Gulf of Mexico OCS Regional Office, 1984.)

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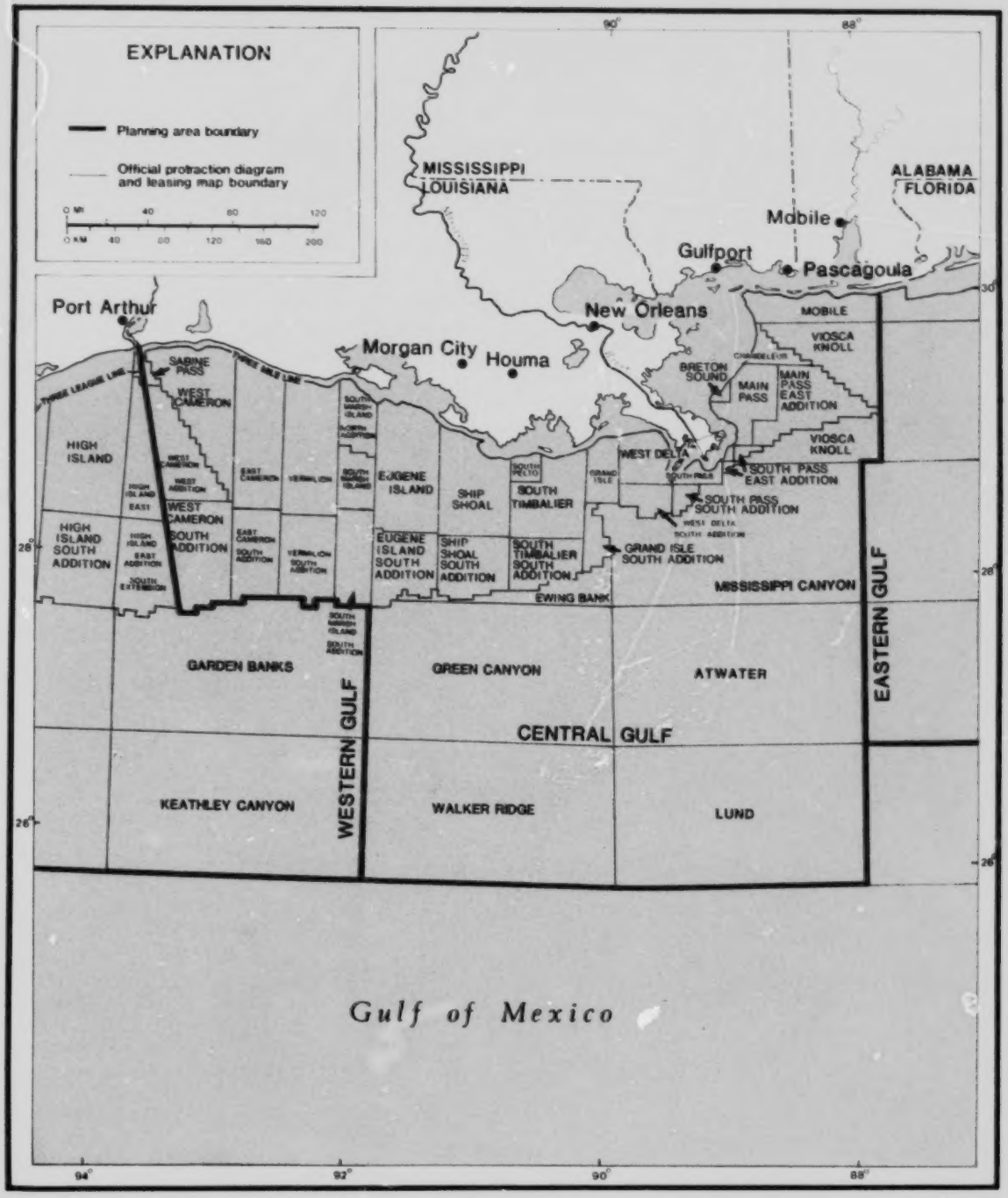


**FIGURE 5.**--Central Gulf of Mexico OCS Planning Area. (MMS, Gulf of Mexico OCS Regional Office, 1984.)

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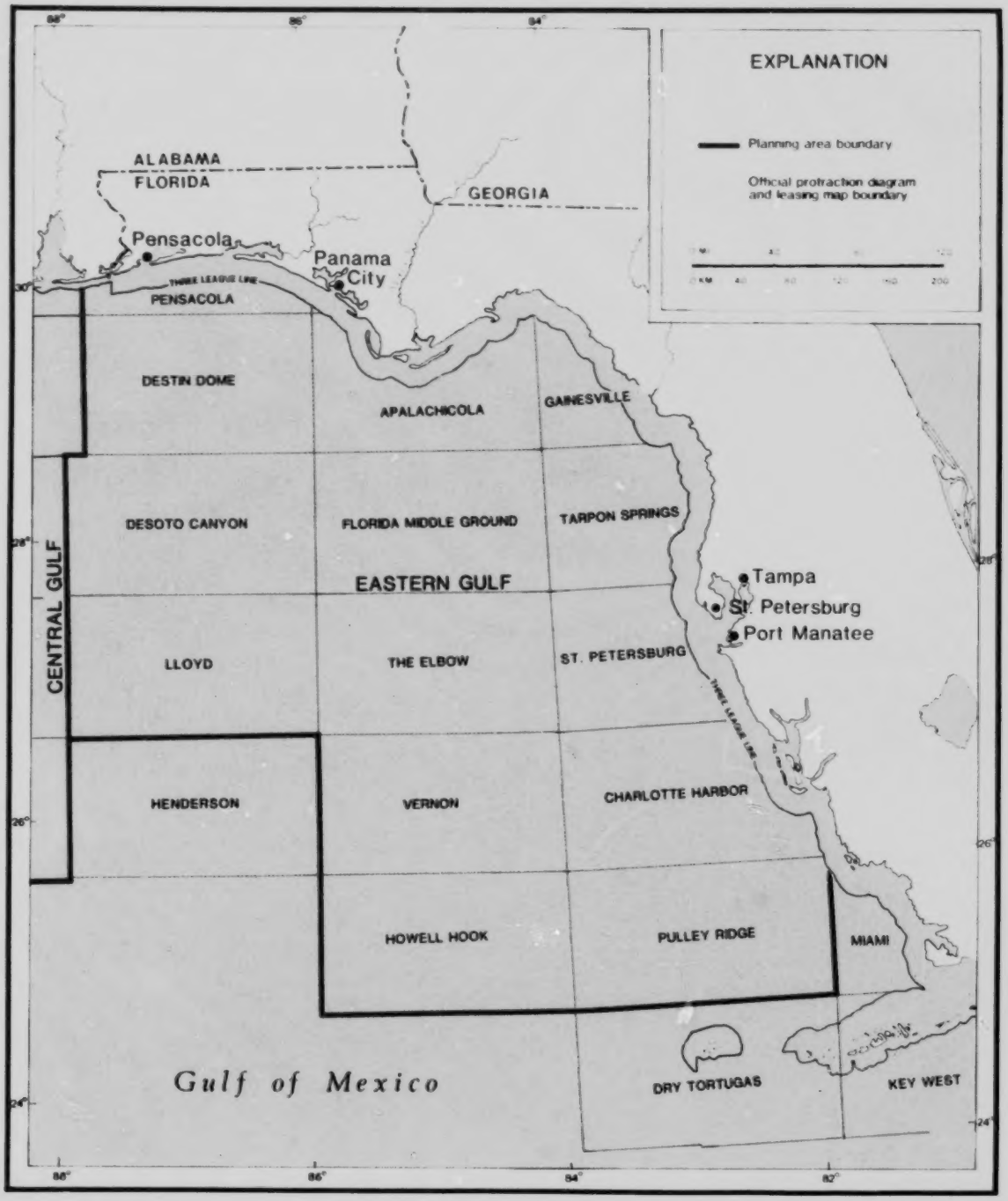


**FIGURE 6.**--Eastern Gulf of Mexico OCS Planning Area. (MMS, Gulf of Mexico OCS Regional Office, 1984.)

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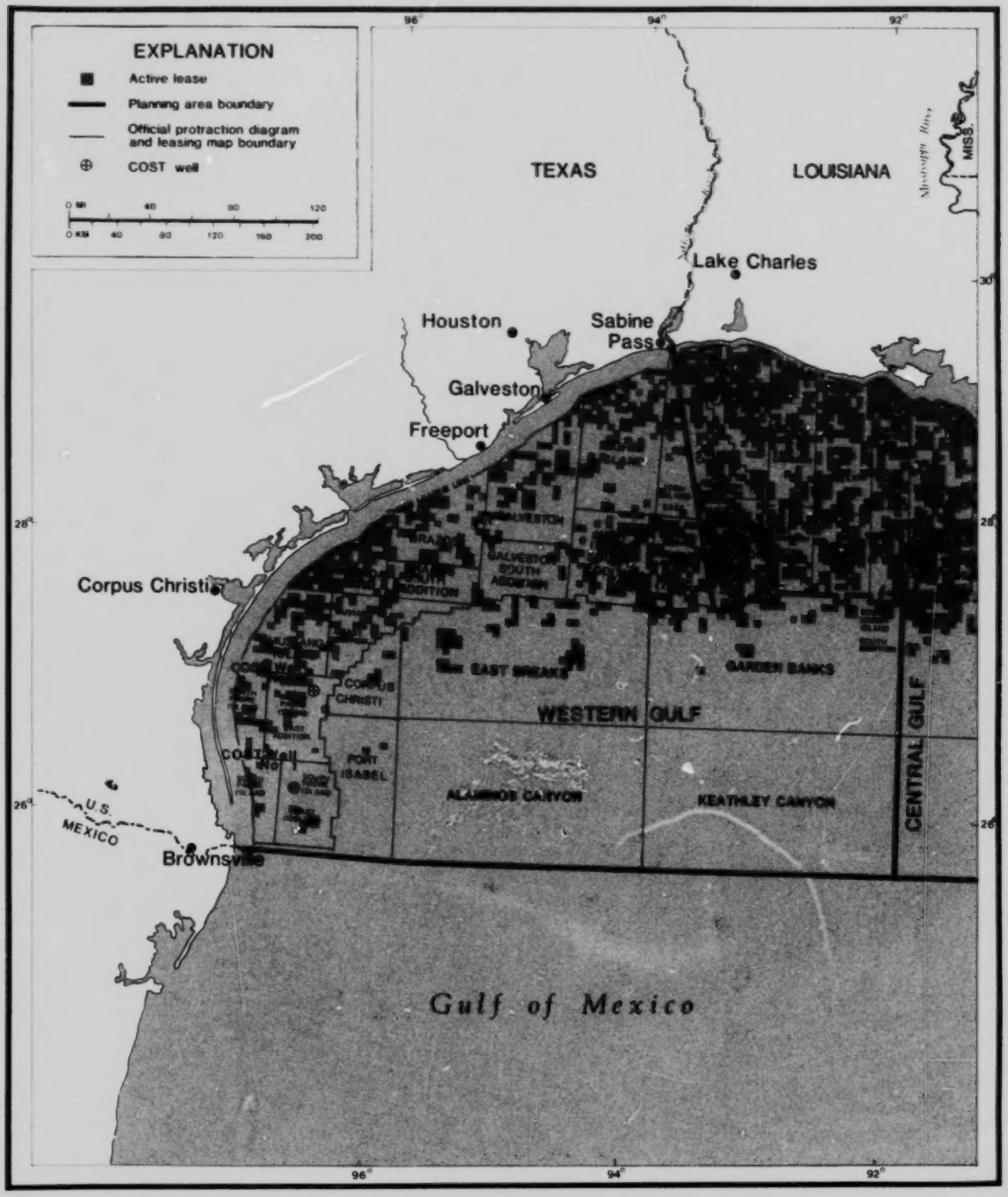


**FIGURE 7.**—Locations of active leases in the Western Gulf of Mexico OCS Planning Area as of October 31, 1984. (MMS, Gulf of Mexico OCS Regional Office, 1984.)

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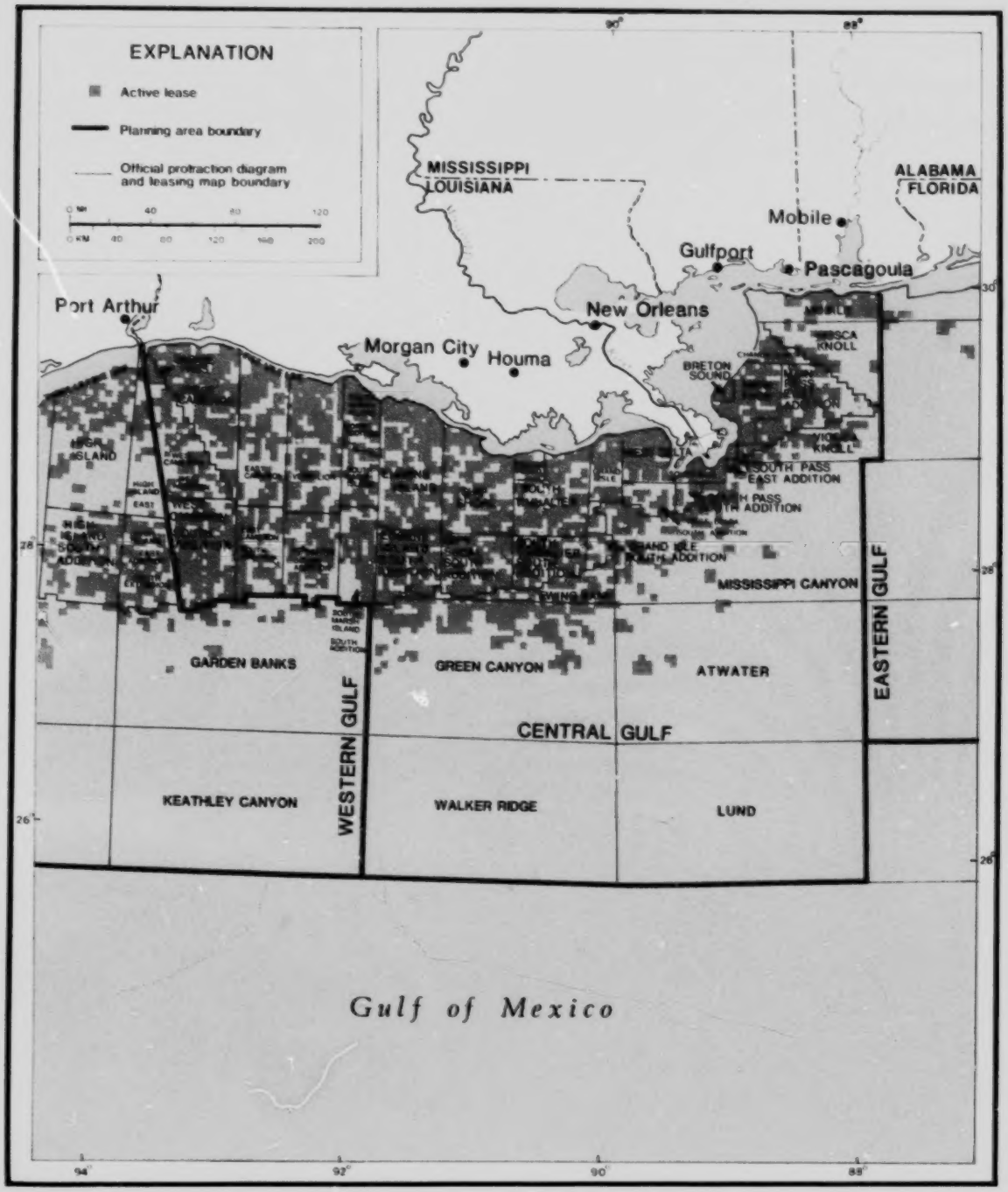


**FIGURE 8.**--Locations of active leases in the Central Gulf of Mexico OCS Planning Area as of October 31, 1984. (MMS, Gulf of Mexico OCS Regional Office, 1984.)

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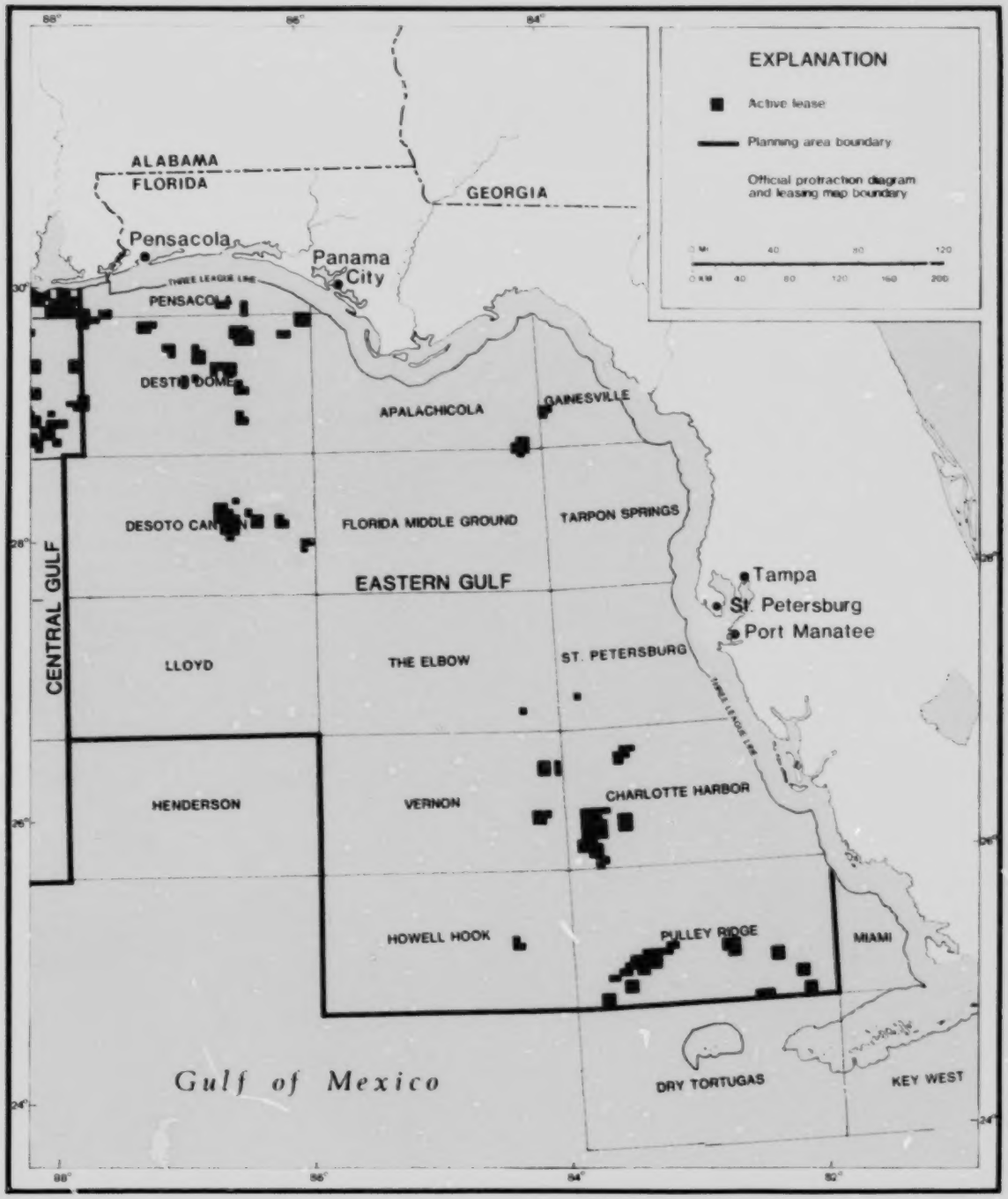


**FIGURE 9.**--Locations of active leases in the Eastern Gulf of Mexico OCS Planning Area as of October 31, 1984. (MMS, Gulf of Mexico OCS Regional Office, 1984.)

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## TABLE 1.—Gulf of Mexico OCS oil and gas lease sale history

| Sale[1] | Sale date | Type[2] | Planning area[3] | No. of tracts offered | No. of tracts bid on[4] | No. of bids received | No. of tracts leased | Acres leased | Total bonus leased tracts (dollars) | Active leases[5] |
|---|---|---|---|---|---|---|---|---|---|---|
| Section 6 | | | | | | | | | | 151 |
| 1 | 10/13/54 | G | C | 199 | 90 | 336 | 90 | 394,721 | 116,378,476 | 34 |
| 2 | 11/09/54 | G | W | 38 | 19 | 90 | 19 | 67,148 | 23,357,029 | 6 |
| 3 | 07/12/55 | G | C&W | 210 | 121 | 384 | 121 | 402,566 | 108,528,726 | 24 |
| | 1956 (no sales) | | | | | | | | | |
| | 1957 (no sales) | | | | | | | | | |
| | 1958 (no sales) | | | | | | | | | |
| 5 | 05/26/59 | G | E | 80 | 23 | 23 | 23 | 132,480 | 1,711,872 | 0 |
| 6 | 08/11/59 | D | C | 38 | 28 | 56 | 19 | 38,819 | 88,035,120 | 6 |
| 7 | 02/24/60 | G | C&W | 385 | 173 | 444 | 147 | 704,526 | 246,909,784 | 63 |
| | 1961 (no sales) | | | | | | | | | |
| 9 | 03/13/62 | G | C | 401 | 212 | 538 | 206 | 936,407 | 177,260,303 | 74 |
| 10 | 03/16/62 | G | C&W | 410 | 210 | 666 | 205 | 956,592 | 268,333,397 | 71 |
| 11 | 10/09/62 | D | C | 19 | 14 | 26 | 9 | 16,177 | 43,887,359 | 4 |
| | 1963(no sales) | | | | | | | | | |
| 12 | 04/28/64 | D | C | 28 | 23 | 69 | 23 | 32,671 | 60,340,626 | 15 |
| | 1965 (no sales) | | | | | | | | | |
| 14 | 03/29/66 | D | C | 18 | 18 | 64 | 17 | 35,055 | 88,845,963 | 11 |
| 15 | 10/18/66 | D | C | 52 | 32 | 79 | 24 | 104,717 | 99,164,930 | 11 |
| 16 | 06/13/67 | G | C | 206 | 172 | 743 | 158 | 744,456 | 510,079,178 | 47 |
| 18 | 05/21/68 | G | W | 169 | 141 | 556 | 110 | 541,304 | 593,899,046 | 11 |
| 19 | 11/19/68 | D | C | 26 | 21 | 38 | 16 | 29,679 | 149,868,789 | 4 |
| 19A | 01/14/69 | D | C | 38 | 26 | 40 | 20 | 48,504 | 44,037,339 | 6 |
| 19B | 12/16/69 | D | C | 27 | 16 | 58 | 16 | 60,153 | 66,908,196 | 11 |
| 21 | 07/21/70 | D | C | 34 | 21 | 59 | 19 | 44,642 | 97,769,013 | 13 |
| 22 | 12/15/70 | G | C | 127 | 127 | 1,043 | 119 | 553,897 | 847,295,760 | 63 |
| 23 | 11/04/71 | D | C | 18 | 13 | 33 | 11 | 37,222 | 96,304,523 | 6 |
| 24 | 09/12/72 | G | C | 78 | 74 | 324 | 62 | 290,320 | 585,827,925 | 12 |
| 25 | 12/19/72 | G | C | 132 | 119 | 690 | 116 | 535,874 | 1,665,519,631 | 53 |
| 26 | 06/19/73 | G | C&W | 129 | 104 | 551 | 100 | 547,173 | 1,591,397,380 | 43 |
| 32 | 12/20/73 | G | E | 147 | 89 | 373 | 87 | 485,396 | 1,491,065,231 | 2 |
| 33 | 03/28/74 | G | C | 206 | 114 | 402 | 91 | 421,218 | 2,092,510,854 | 37 |
| 34 | 05/29/74 | G | W | 245 | 123 | 352 | 102 | 565,112 | 1,471,851,831 | 49 |
| 51 | 07/30/74 | G | C&W | 258 | 49 | 57 | 19 | 100,240 | 30,236,800 | 4 |
| 36 | 10/16/74 | G | C | 297 | 157 | 387 | 144 | 675,586 | 1,428,261,330 | 81 |
| 37 | 02/04/75 | G | W | 315 | 143 | 281 | 113 | 626,583 | 274,690,955 | 22 |
| 38 | 05/28/75 | G | C&W | 283 | 102 | 191 | 86 | 406,941 | 232,916,030 | 41 |
| 38A | 07/29/75 | G | C&W | 345 | 80 | 179 | 66 | 336,300 | 163,214,006 | 36 |
| 41 | 02/18/76 | G | C,W,&E | 132 | 41 | 81 | 34 | 161,285 | 175,976,493 | 15 |
| 44 | 11/16/76 | D | C&W | 61 | 48 | 117 | 43 | 178,127 | 379,148,962 | 29 |
| 47 | 06/23/77 | G | C&W | 223 | 152 | 424 | 124 | 605,426 | 1,170,093,432 | 58 |
| 45 | 04/25/78 | | C&W | 145 | 101 | 283 | 90 | 438,756 | 733,656,893 | 49 |
| 65 | 10/31/78 | G | E | 89 | 35 | 62 | 35 | 201,294 | 61,176,730 | 32 |
| 51 | 12/19/78 | G | C&W | 128 | 88 | 288 | 81 | 412,416 | 871,464,998 | 39 |
| 58 | 07/31/79 | G | C&W | 123 | 88 | 316 | 81 | 391,182 | 1,247,489,022 | 81 |
| 58A | 11/27/79 | G | C&W | 124 | 96 | 322 | 90 | 421,519 | 1,913,337,938 | 89 |
| A62 | 09/30/80 | G | C | 192 | 147 | 506 | 116 | 551,643 | 2,676,927,673 | 116 |
| 62 | 11/13/80 | G | W | 81 | 74 | 268 | 67 | 383,323 | 1,417,961,511 | 67 |

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## TABLE 1.—Gulf of Mexico OCS oil and gas lease sale history—Continued

| Sale[1] | Sale date | Type[2] | Planning area[3] | No. of tracts offered | No. of tracts bid on[4] | No. of bids received | No. of tracts leased | Acres leased | Total bonus leased tracts (dollars) | Active leases[5] |
|---|---|---|---|---|---|---|---|---|---|---|
| A66 | 07/21/81 | G | C&W | 212 | 162 | 419 | 156 | 799,399 | 2,649,628,752 | 156 |
| 66 | 10/20/81 | G | C&E | 209 | 107 | 233 | 102 | 1,057,603 | 1,203,468,752 | 102 |
| 67 | 02/09/82 | G | C,W,&E | 225 | 137 | 290 | 115 | 590,265 | 1,193,654,719 | 105 |
| 69 (1) | 11/17/82 | G | C&W | 144 | 67 | 151 | 56 | 281,213 | 609,178,223 | 56 |
| 69 (2) | 03/08/83 | G | E | 125 | 13 | 20 | 11 | 58,120 | 37,570,900 | 11 |
| 72 | 05/25/83 | G | C | 7,050 | 656 | 1,015 | 623 | 3,089,872 | 3,367,606,134 | 621 |
| 74 | 08/24/83 | G | W | 5,848 | 436 | 773 | 406 | 2,246,005 | 1,501,712,517 | 406 |
| 79 | 01/05/84 | G | E | 8,868 | 156 | 226 | 156 | 897,786 | 310,586,261 | 156 |
| 81 | 04/24/84 | G | C | 6,502 | 529 | 793 | 453 | 2,278,179 | 1,323,036,649 | 453 |
| 84 | 07/18/84 | G | W | 5,496 | 402 | 593 | 361 | 1,949,213 | 844,850,488 | 361 |

[1]Section 6 leases are offshore oil and gas leases sold by the States prior to the passage of the OCS Lands Act in 1953 that were later validated as Federal leases under section 6 of the act. Prior to Lease Sale 33, designators (numbered designations) were not preassigned to offshore lease sales. For ease of reference, however, a designator has been assigned to each sale. Lease Sale 4, a planned Gulf of Mexico sale, was canceled in 1956.

[2]G indicates general oil-and-gas lease sale; D indicates drainage oil-and-gas lease sale.

[3]C = Central; E = Eastern; W = Western.

[4]Beginning with the first areawide lease sale of May 1983, the administrative units offered for leasing are referred to as blocks.

[5]Active leases as of October 31, 1984.

SOURCE: MMS, Gulf of Mexico OCS Regional Office.

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## Eastern Gulf of Mexico Lease Sale 79 (January 1984)

Lease Sale 79 was originally planned to offer all unleased acreage in the Eastern Gulf Planning Area, a total of nearly 59 million acres. This was the first areawide lease sale in the Eastern Gulf Planning Area. Certain blocks that previously had been closed to industry bidding were offered and received much interest, especially the crest of the Destin Dome anticline.

Scheduled for November 1983, the sale was delayed until January 5, 1984. The supplemental appropriations bill for fiscal year 1984 created a moratorium buffer zone off the Florida Gulf Coast in which no leasing was allowed during fiscal year 1984. An additional 322 blocks were deleted by agreement between the Secretary of the Interior and the Governor of Florida, including the area within the Florida Middle Ground and those areas containing seagrass beds. The agreement also ensured that no drilling would occur in areas south of latitude 26° N. until environmental studies were completed in 1986.

Many blocks leased in the sale carried stipulations related to military operations in the Eastern Gulf. These stipulations identified standards for (1) offshore operators' liability for loss, (2) their structures' electromagnetic emissions, (3) the operation of boats and aircraft, and (4) the evacuation of platforms or rigs. Throughout most of the Eastern Planning Area, timing and placement of surface structures (rigs and platforms) are subject to review by the Commanders of the Armament Division, Eglin Air Force Base, Florida, and the Naval Coastal Systems Center, Panama City, Florida.

The notice of sale was published in the **Federal Register** on December 6, 1983 (48 FR 54787-54804). The sale offered 50.6 million acres. All the 156 blocks receiving bids were leased, for a bonus total of more than $310 million.

## Central Gulf of Mexico Lease Sale 81 (April 1984)

Lease Sale 81 was the second sale offering industry an opportunity to lease all available blocks in the Central Gulf of Mexico Planning Area. It offered 6,502 blocks covering 34.7 million acres, of which 2.3 million acres were leased. More than one-third of the blocks receiving bids were in water depths greater than 1,000 feet.

The proposed notice of sale for Sale 81 was published in the **Federal Register** on December 16, 1983 (48 FR 55975-55985), following the release of the regional final environmental impact statement (FEIS) on December 12, 1983 (48 FR 55343-55344), which covered both this sale and Lease Sale 84. The notice of sale for Sale 81 was published in the **Federal Register** on March 23, 1984 (49 FR 11105-11117), and the sale was held on April 24, 1984. High bids totaling more than $1.3 billion were accepted by DOI for the 453 blocks leased.

## Western Gulf of Mexico Lease Sale 84 (July 1984)

Lease Sale 84 was the first Gulf of Mexico OCS lease sale held in Houston, Texas, and the second areawide lease sale in the Western Gulf Planning Area. Held on July 18, 1984, Sale 84 offered 30 million acres, or 5,446 blocks. As with Lease Sale 81 in the Central Gulf, industry showed considerable interest in deeper waters, with 106 of the 436 blocks in water of 1,000 feet or more receiving bids.

Following the release of the regional FEIS for Lease Sales 81 and 84 on December 12, 1983, the proposed notice of sale for Sale 84 was published in the **Federal Register** on February 27, 1984 (49 FR 7191-7199). The notice of sale appeared in the **Federal Register** on June 14, 1984 (49 FR 24672-24681). Of the 436 blocks receiving bids, DOI leased 361 blocks covering just under 2 million

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acres. The sum of bonuses accepted was $845 million.

## FUTURE SALES

### Central Gulf of Mexico Lease Sale 98

Lease Sale 98, scheduled for May 1985, will be the third areawide lease sale in the Central Gulf. The area being considered for lease consists of 32.9 million acres, or 6,107 blocks. The call for information and nominations for MMS lease sales to be held in the Gulf of Mexico in 1985 (Lease Sales 98 and 102 in the Western Gulf and Lease Sale 94 in the Eastern Gulf) was published in the **Federal Register** on September 9, 1983 (48 FR 40799-40801). Subsequently, DOI identified the area to be studied in the combined DEIS for the three Gulf sales. The regional DEIS was released on August 13, 1984 (49 FR 32268). Public hearings were held on September 11, 13, and 14, 1984, and the FEIS was released on January 3, 1985 (50 FR 355).

The proposed notice of sale for Sale 98 was published in the **Federal Register** on January 4, 1985 (50 FR 670-681). No deferrals were made for Sale 98 at the time of the proposed notice. (Note: The Supreme Court ruled on February 26, 1985, that the Mississippi Sound and the seabed and minerals below belong to the States of Mississippi and Alabama--not the Federal Government.)

### Western Gulf of Mexico Lease Sale 102

Lease Sale 102 will be the third areawide lease sale in the Western Gulf Planning Area. The sale is scheduled for August 1985. Following the call for information and nominations for Sales 98, 102, and 94 published in the **Federal Register** on September 9, 1983 (48 FR 40799-40801), 28.7 million acres, or 5,173 blocks, were identified for analysis in the EIS process. Two blocks in the environmentally sensitive East and West Flower Garden Banks were excluded from the identified area. As mentioned previously, a regional EIS was prepared for Sales 98, 102, and 94. The DEIS was released on August 13, 1984 (49 FR 32268), and the FEIS on January 3, 1985 (50 FR 355). A proposed notice of sale will be issued in the spring of 1985.

### Eastern Gulf of Mexico Lease Sale 94

Lease Sale 94 is scheduled for November 1985 and will be the second areawide lease sale in the Eastern Gulf. After reviewing comments from the call for information issued on September 9, 1983 (48 FR 40799-40801), DOI deferred 1.7 million acres from the area identified for Sale 94. This area included blocks in the Florida Middle Ground, the seagrass beds off Florida, and those blocks south of latitude 26° N. in water shallower than 60 feet, all of which had been deleted from the last Eastern Gulf sale (Lease Sale 79). In subsequent discussions with representatives from the State of Florida, the Secretary of the Interior announced the deletion of an additional 5.4 million acres. This deferral consists of 990 blocks within a 20- to 30-mile zone adjacent to the shoreline along the Florida coast. It includes a substantial part of the area removed from Lease Sale 79 by a congressional leasing moratorium in fiscal year 1984. The remaining blocks deleted from Sale 79 by Congress were studied further as a deferral option in the EIS but were not removed from Lease Sale 94 in the Secretary's August 1984 action. These blocks are adjacent to active leases or to areas that industry has expressed high interest in leasing.

The DEIS for Sales 98, 102, and 94 was released on August 13, 1984 (49 FR 32268), followed by release of the FEIS on January 3, 1985 (50 FR 355). As currently planned, Sale 94 will offer 50.8 million acres in the Eastern Gulf Planning Area.

### Central Gulf of Mexico Lease Sale 104 and Western Gulf of Mexico Lease Sale 105

Lease Sales 104 and 105 are scheduled for April 1986 and July 1986, respectively.

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Sale 104 will offer available blocks in the Central Gulf. Sale 105 will offer available acreage in the Western Gulf. The call for information for these two sales was published in the **Federal Register** on June 15, 1984 (49 FR 24807-24810), along with the notice of intent to prepare an EIS. Area identification for the EIS was announced on October 3, 1984, and includes 32.5 million acres in the Central Gulf and 28.5 million acres in the Western Gulf. In this announcement, two areas from Lease Sale 105 were deferred by DOI: specifically, two blocks containing the living coral reefs of the East and West Flower Garden Banks and the United States-Mexico International Boundary Area. (A DEIS for the two sales was issued on May 1, 1985, after the closing date for information in this report.)

### Central Gulf of Mexico Lease Sale 110

Lease Sale 110 will offer all available acreage in the Central Gulf Planning Area. The last Gulf of Mexico sale on DOI's July 1982 five-year leasing schedule, it is planned for April 1987. No prelease steps have occurred as yet.

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# 3. Leasing Procedures

## OCS PROGRAM MODIFICATIONS

Modifications of the existing OCS leasing procedures began with Secretary of the Interior William Clark's review of the MMS OCS leasing program in January 1984. The purpose of the modifications is (1) to provide a basis for the early resolution of conflicts during the call for information and the area identification prelease steps, (2) to increase coordination and consultation with affected States and other Federal agencies, and (3) to increase opportunities for public participation. For example, under the call for information and nominations, more specific data are requested now than in previous calls, especially with regard to industry identifying specific rather than broad areas of interest. Information also is requested on potential CZM conflicts associated with future exploration and development proposals. A list of information sources pertinent to the area of study is now included in the call. These sources comprise studies conducted under DOI's Environmental Studies Program, EISs, and other documents relevant to a proposed sale in the area.

Secretary of the Interior Donald Hodel has expanded on these procedures so that the lease sale process focuses on promising acreage. As a result, areas will be deleted at the area identification step and other decision points where significant multiple-use conflicts exist and where the potential for hydrocarbon discovery is low.

In December 1984, MMS developed new procedures for increased consultation with affected States and for increased public participation in upcoming sales, including those currently in progress. A summary of the procedures is listed below:

- Early coordination will begin before publication of the call, informing Governors of the upcoming prelease milestones.
- Comment periods for reviewing proposed actions have been extended: the call for information and nominations has been increased from 30 to 45 days (for Lease Sales 100, 107, and subsequent sales), and the period for commenting on the DEIS has increased from 45 to 60 days (for Lease Sales 88, 90, 89, and subsequent sales).
- Public scoping (issue identification) meetings have been reinstituted, and the intent to hold meetings will be announced in the **Federal Register** with the publication of the call for information and nominations and notice of intent to prepare an EIS. The date and location of scoping meetings, if not announced in the call, are announced in a subsequent **Federal Register** notice. (Scoping meetings have been announced for Lease Sales 111, 100, and 107.)
- More public hearings will be held on the DEIS, where appropriate.
- Meetings with Governors (or their designated representatives) may be



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held at the field office level periodically during the prelease process to clarify State concerns, including potential resource or use conflicts and appropriate mitigating measures for analysis and consideration in the decisionmaking process.

- Communication will be increased with Governors to review decision options available to the Secretary and to seek resolution of outstanding issues of concern before issuing the proposed notice of sale.

The rest of the process remains the same: the Governors will be consulted pursuant to section 19 of the OCSLA for their recommendations on size, timing, or location of the sale; possible additional meetings will be held between representatives of MMS and the States to discuss concerns and the Agency's rationale for focusing on specific options; and, finally, a letter will be sent to the States explaining the Secretary's reasons for accepting or rejecting the Governors' recommendations or for implementing alternative means identified in consultation with a Governor that would provide a reasonable balance between national interests and those of the affected States.

The OCS prelease phase includes the following elements: (1) identification of area with hydrocarbon potential, (2) publication of call for information and nominations and notice of intent to prepare an EIS, (3) area identification, (4) publication of a DEIS, (5) public comment period, (6) publication of an FEIS, (7) proposed notice of sale, (8) review of Governor's comments concerning the proposed sale, (9) publication of a final notice of sale, (10) sale, (11) bid review, and (12) issuance of leases.

## DOCUMENTS AND DATA FOR LEASE SALES

This discussion provides information produced by MMS that is relevant to the oil and gas lease sales held or scheduled in the Gulf of Mexico OCS Region for the period from August 1983 through October 1984.

Regulations in effect before the OCSLA Amendments of 1978 required comparatively fewer, less detailed documents than those required by current regulations. The following changes in regulations are particularly important in accounting for differences in the documentation presented in this chapter from that presented in previous editions of the Index.

- Exploration plans, development and production plans, and development operations coordination documents (30 CFR 250.34-1 and 250.34-2) have become increasingly detailed. Plans submitted before 1979 may not contain all the information listed in this chapter, and they are not always accompanied by environmental reports. In addition, regulations requiring that plans be submitted for all exploration or development and production activities were not made final until December 1979.

- Subsection 25(e)(1) of the OCSLA Amendments provides that, "At least once, the Secretary shall declare the approval of a development and production plan in any area or region (as defined by the Secretary) of the Outer Continental Shelf, other than the Gulf of Mexico, to be a major Federal action." Under the provisions of the National Environmental Policy Act (NEPA) of 1969, an EIS must be prepared for any major Federal action.

- Executive Order 12291, issued in February 1981, necessitated certain revisions in the method of promulgating Federal regulations. This order directed Federal agencies to make regulations as simple and as clear as possible. Further, Executive Order 12291 directed

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that the net benefit to be accrued from Federal regulations be weighed against the net cost to minimize the regulatory burden on society.

Copies of available MMS documents may be obtained by contacting the MMS Gulf of Mexico OCS Regional Office. In some cases, a nominal fee may apply. The address and telephone number of this office are listed on the inside front cover of this Index.

## PRECALL ACTIVITIES

Before an OCS lease sale, Continental Offshore Stratigraphic Test (COST) wells (officially referred to as Deep Stratigraphic Test, or DST, wells in Federal OCS regulations) may be drilled by groups of oil companies to obtain geological and engineering data in an area proposed for leasing. The purpose for collecting the data is to determine if a hydrocarbon potential exists in the area and to identify problems that may exist.

The stipulations attached to the permits for COST well operations include a provision concerning geological data and information from COST wells. Such data, including analyzed and interpreted information, shall be released 60 days after the issuance of the first Federal lease within 50 geographic miles of the completed test site, or 10 years after well completion if no lease is issued.

Prior to the call, and at the discretion of the Regional Director, MMS prepares a geology report covering the entire planning area. Formerly called a resource report, the geology report has a different scope from its predecessor. The resource report contained both a geology discussion and resource estimates. However, resource estimates are now prepared after the area identification. The analysis and refinement of hydrocarbon resource data continue throughout the offshore leasing process, and, as data are updated, resource estimates may change. The geology report includes the locations of hydrocarbon potential in the planning area and a description of the environmental geology of the area, including a characterization of regional geologic hazards.

In preparing environmental analyses and, later, DEISs (see Step 3 - Draft Environmental Impact Statement), the most up-to-date geologic information is used by the regional office. The DEIS presents a summary of geologic information before any final decision of the lease sale offering is made. In addition to geologic information, the environmental analysis contained in the DEIS draws on MMS's Environmental Studies Program reports, the Offshore Resource Evaluation Program, and other data sources.

## PRELEASE PHASE

### STEP 1. CALL FOR INFORMATION AND NOMINATIONS AND NOTICE OF INTENT TO PREPARE AN EIS

30 CFR 256.23-25 subpart D

The call for information and nominations is announced at least 2 months after the Resource Evaluation Division Chief has identified and the Assistant Secretary for Land and Minerals Management has approved the area of hydrocarbon potential for the upcoming sale. This step signals the initiation of the offshore leasing process.

The purpose of the call is to invite potential bidders, State governments, and other concerned parties to indicate areas in which they have an interest; a call does not commit DOI to a particular lease sale. Industry is requested to respond on specific, rather than broad, areas of interest. The call also solicits comments from States and all interested parties on any environmental effects and use conflicts, as well as coastal zone consistency concerns. Comments are sent to the MMS regional offices, with copies to the Chief, Offshore Leasing Management Division of MMS in Washington, D.C. Respondents are allowed at least 45 days from the date of the call to submit comments.

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Comments are available for public examination at the MMS regional offices. However, specific areas of interest identified by industry are considered to be proprietary and cannot be released.

Signed by the Assistant Secretary, the approved call is published in the **Federal Register** and includes two lists: (1) information pertinent to the area of study, including studies conducted by the Department's Environmental Studies Program and EISs, and (2) the official protraction diagrams covering the call area.

A notice of intent (NOI) to prepare an EIS also is published simultaneously with the call. It announces the initiation of EIS scoping and invites public assistance in determining the significant issues, including coastal zone consistency issues, and alternatives to be analyzed in the EIS. A concerted effort has been reinstituted by DOI to identify State concerns and issues early in the leasing process through scoping.

The following citations include data on the previous calls for information.

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 65, 51, 58, 58A, A62, 62, A66, 66, 67, and 69;
- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales 72 and 74; and
- **Gulf of Mexico Index (September 1982 - July 1983):** Lease Sales 81 and 84.

Publication dates of the calls for information and nominations and notices to prepare EISs for Lease Sales 94, 98, 102, 104, and 105 are shown in table 2, page 30.

## STEP 2. AREA IDENTIFICATION

30 CFR 256.26-28 subpart E

Area identification formally establishes that portion of the planning area on which the EIS analysis will be focused and that will be considered for leasing. Although blocks may be deleted later from the lease sale, those that have not been analyzed through the EIS process may not be added after the process has been completed.

After the call for information and nominations comment period closes, MMS evaluates the following: (1) areas receiving specific interest and comments in response to the call, (2) the past leasing history of the area, (3) environmental resources, (4) multiple-use conflicts, and (5) hydrocarbon potential. Areas may be deleted at this point if significant multiple-use conflicts exist and hydrocarbon potential is low, or for other reasons.

In accordance with section 7(a) of the Endangered Species Act, MMS requests joint consultation from the Fish and Wildlife Service and from the National Marine Fisheries Service concerning threatened or endangered species.

In accordance with a July 1983 Memorandum of Agreement, the Secretary of the Department of Defense and the Secretary of DOI have established formal guidelines for determining joint-use and exclusive-use zones between the two Agencies in specific lease sale planning areas. Areas of joint use are those in which the offshore oil and gas exploration and development activities are compatible with military operations. Exclusive-use zones are those areas designated for exclusive military use.

The U.S. Coast Guard also is consulted about potential conflicts with navigation safety. The members of the Regional Tech-

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nical Working Group (see chap. 4, p. 46) may make recommendations on the basis of their knowledge of the call area.

After considering the area of hydrocarbon potential, responses to the call for information and nominations, and other relevant data, MMS recommends to the Assistant Secretary for Land and Minerals Management areas it has identified for environmental analysis and for consideration for leasing. The MMS may include areas in the recommendation on which respondents had not expressed an interest during the call for information and nominations.

Area identification information appearing in previous editions of this Index is itemized below.

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 45, 65, 51, 58, A62, 62, A66, 66, 67, and 69; and
- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales 72, 74, and 79.

There was no formal publication announcement of area identification for Lease Sales 81 and 84.

Information on area identification for proposed Lease Sales 94, 98, 102, 104, and 105 is shown in table 2, page 30.

## STEP 3. DRAFT ENVIRONMENTAL IMPACT STATEMENT

40 CFR 1500
30 CFR 256.26

The preparation of an EIS is required by NEPA (42 U.S.C. 4321) for all major Federal actions significantly affecting the quality of the human environment. Council on Environmental Quality regulations require that there be an early and open process for determining the scope of issues, alternatives, and environmental effects to be addressed by the EIS. All interested parties are invited to participate in the EIS preparation, which begins early in lease sale planning, by publication of the sale-specific NOI in the **Federal Register.** The MMS then requests comments from all concerned parties to establish the scope of the EIS. Periodic informal consultations between the MMS regional office and the Governor's office are held throughout the prelease process to clarify State concerns. Discussions include potential resource or use conflicts and appropriate mitigating measures for analysis and consideration in the decision process. Other Federal, State, and local agencies also participate in this informal consultation process by identifying additional significant issues pertinent to the proposed lease sale.

An EIS, prepared by the MMS regional office according to NEPA requirements, describes the entire planning area in which an initial lease sale is being considered. The focus of the EIS, however, is on the potential environmental effects of oil and gas activities in the area identified as available for leasing. An EIS also is prepared for subsequent sales in the planning area. Subsequent EISs build on the initial EIS by incorporating references to unchanged information in the initial EIS and adding new or updated information on significant issues.

The DEIS describes the existing environment, the proposed action and its alternatives, resource estimates, and probable environmental risks. Mitigating measures (such as lease stipulations), unavoidable adverse impacts, cumulative effects, and irreversible and irretrievable commitments of resources are analyzed. Issues raised while determining the scope of the environmental analysis are also discussed in the DEIS. The

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DEIS is published approximately a year after the call for information and nominations. A 60-day comment period is provided following notice in the **Federal Register** of the DEIS's availability. Public hearings are held to receive the comments of interested parties. The locations and dates of public hearings are announced in an MMS fact sheet and in the **Federal Register.**

A listing of the DEIS information appearing in previous editions of this Index is presented below.

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 45, 65, 51, 58, 58A, A62, 62, A66, and 66;
- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales 67 and 69; and
- **Gulf of Mexico Index (September 1982 - July 1983):** Lease Sales 81 and 84.

Information on the DEISs prepared for Lease Sales 94, 98, and 102 is shown in table 2, page 30.

## STEP 4. FINAL ENVIRONMENTAL IMPACT STATEMENT

40 CFR 1500 - 1508

After oral and written comments on the DEIS are received and evaluated, an FEIS is prepared to incorporate new findings, substantive comments and responses thereto, and any additional information acquired during the review period. The EIS is filed with the Environmental Protection Agency (EPA), submitted to numerous other Federal agencies, and made available to the public. Following publication of the FEIS, the proposed notice of sale is issued.

A listing of the FEIS information appearing in previous editions of this Index is presented below.

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 45, 65, 51, 58A, A62, and 62;
- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales A66, 66, 67, and 69; and
- **Gulf of Mexico Index (September 1982 - July 1983):** Lease Sales 72, 74, and 79.

Information on FEISs published since July 1983 is shown in table 2, page 30.

## STEP 5. PROPOSED NOTICE OF SALE

30 CFR 256.29-31

The proposed notice of sale is a document that informs the public of the terms and conditions of a proposed offshore lease sale. In reviewing the proposed notice of sale, Governors of affected States may review the possible decisions of the Secretary in an attempt to resolve any outstanding issues of concern. In advance of the proposed notice, the MMS prepares a Secretarial Issue Document (SID) to assist the Assistant Secretary for Land and Minerals Management, on behalf of the Secretary, in deciding whether and how to proceed with a lease sale. The SID presents and analyzes the options and issues, including block deferrals, lease sale delay or cancellation, mitigating measures, and bidding systems. The SID is an internal document, not available to the public until the Assistant Secretary decides whether or not to proceed with the lease sale. Then, the SID is sent to the Governors of affected States and is available to others for review along with the proposed notice of sale.

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On the basis of the decision made, the Director of MMS prepares a proposed notice of sale that includes (1) either a listing of blocks being considered for lease or a listing of blocks not available for lease, and (2) information on the lease sale procedures and methods of bidding. The proposed notice of sale also includes proposed lease stipulations and offers measures to mitigate the potential adverse effects of the proposed action. These lease stipulations are prepared in consultation with the affected State(s), the Fish and Wildlife Service, the National Park Service, and other Federal agencies, as appropriate, at the regional and headquarters levels.

The proposed notice is sent to the Governors of affected coastal States and published in the **Federal Register.** The Governor of any affected State and, through the Governor, any affected local governments are asked for recommendations on the size, timing, or location of the proposed lease sale. Governors have 60 days in which to comment. The Secretary of the Interior is required under section 19 of the OCSLA to make a written reply to each Governor discussing the reasons for the determination to accept or reject the Governor's recommendations.

An additional step was added during the period covered by the previous Gulf of Mexico Index (September 1982 - July 1983). This step was the result of the U.S. Court of Appeals of the Ninth Circuit's ruling on August 12, 1982, which upheld a 1981 lower court decision in the case of **State of California, et al.** v. **James G. Watt, et al.** This ruling specified that DOI must prepare a consistency determination pursuant to the Coastal Zone Management Act (CZMA), as amended, for Lease Sale 53 because it "directly affected" California's coastal zone.

The question of whether such determinations were required for all lease sales was brought before the U.S. Supreme Court for clarification in the case **Secretary of the Interior** v. **California** (U.S. Supreme Court No. 82-1326, January 11, 1984).

Ruling for the Secretary of the Interior, the Supreme Court's decision states that OCS lease sales by themselves are not events that "directly affect" the coastal zone within the meaning of section 307(c)(1). Instead, the Court interpreted congressional intent under the CZMA to mean that the consistency provisions of the Act are applicable only to post-lease activities. For additional information on this litigation and its potential ramifications, see the Gulf of Mexico Summary Report, September 1984.

As a result of the Supreme Court's ruling, consistency determinations are no longer prepared for each lease sale. However, the SID includes an analysis of potential CZM consistency conflicts that could be expected at the exploration and development phases. This information also is included in the decision memoranda pertaining to each sale. A summary of the analysis is provided to Governors along with information on the proposed notice and, where a Governor has provided comments in response to the proposed notice, with the transmittal of the notice of sale.

Following is a list of previously published Indexes where information on SIDs and proposed notices of sale for prior lease sales can be found.

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 45, 65, 51, 58, 58A, A62, and 62;
- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales A66, 66, 67, and 69; and
- **Gulf of Mexico Index (September 1982 - July 1983):** Lease Sales 72, 74, and 79.

The SIDs and proposed notices of sale for Lease Sales 81 and 84 are referenced in table 2, page 30.

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## STEP 6. FINAL NOTICE OF SALE

30 CFR 256.32

After receiving comments from the Governors in response to the proposed notice of sale, a final decision memorandum that analyzes all issues is prepared for the Secretary. The Secretary accepts or rejects recommendations of a Governor based upon whether they provide for a reasonable balance between the national interest and that of the citizens of the affected State. The rationale for this determination is provided to the Governor in writing. About 90 days after the proposed notice is published, and after consideration of Governors' comments, the Secretary issues a final notice of sale if he decides to proceed with the lease sale. The date, timing, location, terms, and conditions of the sale are published in the **Federal Register** at least 30 days before the sale is conducted.

Following is a list of the notices of sale that have appeared in each previous edition of this Index.

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 45, 65, 51, 58, 58A, A62, and 62;
- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales A66, 66, 67, and 69; and
- **Gulf of Mexico Index (September 1982 - July 1983):** Parts 1 and 2 of Lease Sale 69 and Lease Sale 72.

Notice of sale data for Lease Sales 74, 79, 81, and 84 appear in table 2, page 30.

## STEP 7. SALE

30 CFR 256.35-50

Under the OCSLA, as amended in 1978, the Secretary of the Interior is instructed to employ competitive bidding procedures for offshore oil and gas lease sales. Separate sealed bids are submitted for each block or bidding unit that is bid upon. The sale is held and all bids received are publicly announced. Bids are neither rejected nor accepted at the offering. After the bid opening, the MMS regional office conducts a review of the bids to determine which is the highest valid bid for each block. Technical and economic information gathered by MMS before the sale for the purpose of evaluating the potential mineral resource value of the blocks is considered during this review. The evaluation and acceptance or rejection of the bids on a case-by-case basis must, by regulation, occur within 90 days after the lease sale is held. Pertinent information is sent to the Department of Justice's Antitrust Division and the Federal Trade Commission for review. The Justice Department must clear the bids before the MMS Regional Director makes the final decision on which high bids will be accepted or rejected.

Leases are awarded to the highest qualified bidder if fair market value has been received. Leases are issued for an initial term of 5 years or up to a maximum of 10 years, where it is determined that the longer period is necessary to encourage exploration and development because of excessive water depth or other unusually adverse conditions. The exact term of the lease for each block is specified in the notice of sale and in documents or maps referenced therein. A lease may extend beyond its initial term under specific conditions (see Step 13, p. 43).

A bid recap report is prepared by the MMS regional office after a sale is completed. Copies of the report are available for a nominal fee from the regional office.

Following is a list of the sale data that have appeared in each previous edition of this Index.

- **Gulf of Mexico Index (January 1978 - November 1980):** Lease Sales 45, 65, 51, 58, 58A, A62, and 62;

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- **Gulf of Mexico Index (December 1980 - August 1982):** Lease Sales A66, 66, and 67; and
- **Gulf of Mexico Index (September 1982 - July 1983):** Parts 1 and 2 of Lease Sale 69 and Lease Sale 72.

Information on Lease Sales 74, 79, 81, and 84 follows in table 2.

## POSTLEASE PHASE

### STEP 8. ENVIRONMENTAL ANALYSIS FOR EXPLORATION

15 CFR 930
30 CFR 250.34-1, 250.34-3, 250.57
40 CFR 1500-1508

Exploration activities begin after the leases are issued; MMS is responsible for regulating and monitoring operations on Federal leases and for collecting all revenues due the Government. Except for preliminary activities, no exploratory drilling can begin on a leased block until an exploration plan has been prepared by the lessee or operator and submitted to the MMS regional office for review and approval. Plans must be prepared before the end of the fourth lease year for a 5-year term and within a time period specified at the time of leasing for a 10-year term (30 CFR 250.34; 44 FR 3513-4527, January 17, 1979). Preliminary activities refer to geological, geophysical, and other surveys that are necessary to develop sufficient information to prepare a comprehensive exploration plan (30 CFR 250.34-1(a)(1)).

Each exploration plan includes (1) the proposed type and sequence of exploration activities; (2) a description of drilling vessels and platforms and other structures that come in contact with the seabed, including safety and pollution prevention and control features; (3) the types of geophysical equipment to be used; (4) the approximate location of each proposed exploratory well; (5) an oil-spill contingency plan that sets forth the procedures, personnel, and equipment to be used for preventing, reporting, and cleaning up spills of oil or waste material; (6) other relevant geological and geophysical information; (7) an air-quality analysis; and (8) such other data as the Director of MMS may require.

Exploration is an activity that employs movable drilling rigs such as drill ships, jack-ups, semisubmersibles, and submersibles to search for new hydrocarbon reservoirs. Upon discovery of a reservoir, an attempt is made to delineate the extent of the resource. Delineation entails drilling an additional well(s) to define the limits and extent of the reservoir and the extent of the resource. Once the determination has been made that it contains economically recoverable reserves and MMS has approved a development and production plan, the operator can begin development and production.

Successful exploration usually is followed by the installation of one or more production platforms if the necessary plans of development and production (Step 10) are approved. If exploration is unsuccessful, the drill site is cleared of all equipment.

The exploration plan provides a concise description of the proposed offshore operations, and it must be kept current by submitting revisions for any significant changes. To be approved, an exploration plan must be consistent with the provisions of the OCSLA, as amended, with applicable rules and regulations, and with the provisions of the lease. The exploration plan is accompanied by an environmental report, an oil-spill contingency plan, and coastal zone consistency certification, which are subject to the same review process as the exploration plan.

The environmental report (ER) assesses direct and indirect effects on the environment by the proposed oil and gas activities and provides the State(s) with the necessary data and information to evaluate the consistency of the exploration plan with their federally approved CZM plan. The ER includes (1) a

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## *TABLE 2.—Prelease phase history—dates of public notices issued between August 1983 and October 1984*

(All documents with the exception of SIDs are available from the Gulf of Mexico OCS Regional Office.)

| Lease | | STEP 1 | STEP 2 | STEP 3 | STEP 4 | STEP 5 | STEP 6 | STEP 7 |
|---|---|---|---|---|---|---|---|---|
| Sale no. | Planning area/date | Call for Information/ Call for Nominations and Comments | Area Identification Tent. Tract Selection (Public announcement) | DEIS (Notice of availability) | FEIS (Notice of availability) | Proposed Notice of Sale | Notice of Sale | Sale |
| 74 | Western Gulf 08/24/83 | | | | | | 48 FR 31563-31576<br>07/08/83<br>L: 48 FR 32090-32092<br>07/13/83<br>C: 48 FR 35028<br>08/02/83<br>N: 07/18/83 | 08/24/83<br>N: 08/24/83<br>B: 09/19/83 |
| 79 | Eastern Gulf 01/05/84 | | | | | | 48 FR 54787-54804<br>12/06/83<br>D: 48 FR 54805<br>12/06/83<br>N: 12/02/83 | 01/05/84<br>N: 01/30/84<br>B: 01/23/84 |
| 81 | Central Gulf 04/24/84 | | | | 48 FR 55343-55344<br>12/12/83<br>N: 12/12/83 | 48 FR 55975-55985<br>12/16/83<br>A: 11/21/83<br>N: 12/16/83 | 49 FR 11105-11117<br>03/23/84<br>N: 03/23/84 | 04/24/84<br>N: 04/24/84<br>F: 07/26/84<br>B: 06/29/84 |
| 84 | Western Gulf 07/18/84 | | | | 48 FR 55343-55344<br>12/12/83<br>N: 12/12/83 | 49 FR 7191-7199<br>02/27/84<br>A: 01/31/84<br>N: 02/27/84 | 49 FR 24672-24681<br>06/14/84<br>N: 06/14/84 | 07/18/84<br>N: 07/18/84<br>F: 08/01/84<br>B: 10/24/84 |
| 94 | Eastern Gulf | 48 FR 40799-40801<br>09/09/83 | 04/16/84<br>N: 04/06/84 | 49 FR 32268<br>08/13/84*<br>N: 08/08/84<br>S: 08/10/84 | | | | |
| 98 | Central Gulf | 48 FR 40799-40801<br>09/09/83 | 04/16/84<br>N: 04/16/84 | 49 FR 32268<br>08/13/84*<br>S: 08/08/84 | | | | |
| 102 | Western Gulf | 48 FR 40799-40801<br>09/09/83 | 04/16/84<br>N: 04/16/84 | 49 FR 32268<br>08/13/84*<br>S: 08/08/84 | | | | |

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***TABLE 2.—Prelease phase history—dates of public notices issued between August 1983 and October 1984—Continued***

(All documents with the exception of SIDs are available from the Gulf of Mexico OCS Regional Office.)

| Lease | | STEP 1 | STEP 2 | STEP 3 | STEP 4 | STEP 5 | STEP 6 | STEP 7 |
|---|---|---|---|---|---|---|---|---|
| Sale no. | Planning area/date | Call for Information/ Call for Nominations and Comments | Area Identification Tent. Tract Selection (Public announcement) | DEIS (Notice of availability) | FEIS (Notice of availability) | Proposed Notice of Sale | Notice of Sale | Sale |
| 104 | Central Gulf | 49 FR 24807-24810 06/15/84 | 10/03/84 E: 10/03/84 | | | | | |
| 105 | Western Gulf | 49 FR 24807-24810 06/15/84 | 10/03/84 E: 10/03/84 | | | | | |

A = Secretarial Issue Document (SID) - unpublished internal Gulf of Mexico OCS regional document.
B = Bid recap.
C = Correction to notice.
D = Change of date.
E = Environmental assessment information release.
F = Fact sheet.
L = Leasing systems.
N = News release.
S = Special information release.
*OCS EIS Report MMS 84-0019.

description of onshore support and storage facilities; (2) the number of persons to be employed; (3) the projected quantity and composition of solid, liquid, and gaseous wastes; (4) the boat and aircraft movement patterns; (5) the major supplies, services, energy, and water necessary for implementing the plan; (6) the identification of environmentally sensitive areas; and (7) an assessment of the direct effects of implementing the exploration plan on the onshore and offshore environments. The ER guidelines for lessees and operators submitting an exploration plan are addressed in Notice to Lessee (NTL) 80-6.

The oil-spill contingency plan identifies cleanup equipment and responsible agencies and personnel and sets forth detailed procedures to be employed in responding to an oil spill. In the event of an oil spill during offshore oil and gas operations, the lessee is expected to contain and plug the pollution source and simultaneously initiate containment and cleanup action with onsite equipment or additional equipment staged at appropriate onshore locations. If the lessee fails to control and remove the pollution, the Federal Government, in conjunction with the State and local authorities, will act to control and clean up a spill at the expense of the lessee.

The primary Federal agencies involved in offshore oil-spill control and cleanup activities are the EPA, the Department of Transportation (DOT) through the U.S. Coast Guard (USCG), and DOI through MMS. A 1980 Memorandum of Understanding (MOU) between USCG and MMS sets forth in detail the respective agency authorities on the OCS. This MOU indicates that USCG will provide a technical review of that portion of the oil-spill contingency plan that addresses the adequacy of the oil-spill response, cleanup equipment, and procedures.

Once an exploration plan and accompanying documents are received by the MMS regional office, they are reviewed for completeness and conformity with rules, regulations, and MMS policy. If found incomplete, the documents are either returned to the lessee or the lessee is notified of the required supplemental information that must be submitted. When an exploration plan is deemed to be complete, MMS has 30 days in which to approve or disapprove the plan.

At this point, copies of the exploration plan--with the accompanying ER, oil-spill contingency plan, and coastal zone consistency certification--are forwarded for review to other Federal agencies, including the Fish and Wildlife Service. Copies are sent also to Governors, other interested State agencies, and the office responsible for CZM in each affected State that has an approved CZM program.

Additionally, the lessee submits a copy of the certificate of coastal zone consistency to each affected State pursuant to Department of Commerce regulations. This certificate states that the proposed exploration activity complies with and will be conducted in a manner consistent with a State's approved CZM program.

At the same time that copies of the proposed exploration plan are forwarded to Federal and State agencies, the MMS regional office makes copies available to the public, excluding proprietary portions of the exploration plan that have been determined exempt from disclosure under the Freedom of Information Act. Meanwhile, engineers and other technical personnel within MMS conduct a technical review and prepare comments on the exploration plan.

The Regional Director of MMS (through the regional environmental staff) reviews the possible environmental effects of activities proposed in the plan, as required by NEPA. This postlease environmental review is documented as provided for in the regulations implementing NEPA. Exploration for oil and gas in the mature portions of the Gulf of Mexico has been determined to be an activity that typically does not create impacts that are individually or cumulatively significant. A categorical exclusion review (CER) is prepared for each exploration plan in these areas to

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ensure that possibly significant impacts are not overlooked. Preparation of a CER allows the exploration plan to be excluded from further NEPA review. Where potential exists for a significant impact in environmentally sensitive areas (e.g., the East and West Flower Garden Banks) or for every initial action proposed in nonmature areas of the Gulf, the ER is documented in an environmental assessment (EA) as provided for in the regulations implementing NEPA. If the Regional Director, on behalf of the MMS Director, concludes that no significant effects on the quality of the marine, coastal, or human environment would result from implementing the plan, a finding of no significant impact (FONSI) is prepared. The FONSI briefly presents the basis for that finding and includes a summary or copy of the EA. Notice of availability for EAs and FONSIs prepared for each OCS region is published every 3 months in the **Federal Register.**

If, in the opinion of the Associate Director, the EA indicates that approval of the plan constitutes a major Federal action that would significantly affect the quality of the marine, coastal, or human environments, an EIS must be prepared. At this time, consideration is given to potentially significant adverse impacts upon the marine, coastal, or human environments resulting from the proposed operation.

At the end of the allotted 30-day plan review period, the MMS regional office notifies the lessee of the approval or disapproval of the exploration plan. A plan is disapproved if it is determined that the proposed activity would probably cause serious harm or damage to life (including fish and other aquatic life), property, any mineral (in areas leased or not leased), the national security or defense, or the marine, coastal, or human environments. The lessee is able to modify the plan to mitigate potentially significant impacts and resubmit the plan.

When a plan is approved, activities described in the plan cannot be permitted by MMS until State CZM concurrence is received from all affected States or is conclusively presumed. Under consistency procedures, State CZM agencies have 3 months to concur with or object to the applicant's certification or to notify MMS that more time (6 months total) is needed for review. If a State CZM agency does not respond in one of these ways within 3 months, concurrence is conclusively presumed. If an affected State determines that the exploration plan is inconsistent with its CZM plan, the applicant may appeal this determination to the Secretary of Commerce. Figure 10 presents a summary of the exploration plan review process and the timing involved.

Following is a list of information on exploration plans and ERs that have appeared in previous editions of this Index.

- **Gulf of Mexico Index (January 1978 - November 1980):** Section 6 leases, Lease Sales 1, 2, 3, 7, 9, 12, 15, 16, 19B, 22, 23, 24, 26, 32, 33, 34, S1, 36, 37, 38, 38A, 41, 44, 45, 47, 51, 58, 58A, and 65;

- **Gulf of Mexico Index (December 1980 - August 1982):** Section 6 leases, Lease Sales 1, 3, 7, 9, 10, 14, 15, 16, 18, 19A, 19B, 21, 22, 25, 26, 33, 34, S1, 36, 37, 38, 38A, 41, 44, 47, 45, 65, 51, 58, 58A, A62, 62, A66, 66, and 67; and

- **Gulf of Mexico Index (September 1982 - July 1983):** Section 6 leases, Lease Sales 2, 3, 7, 9, 10, 14, 16, 19A, 22, 25, 26, 33, 34, 36, 38, 38A, 41, 44, 47, 45, 51, 58, 58A, A62, 62, A66, 66, 67, 69 (Parts 1 and 2), and 72.

Exploration plans approved between August 1983 and October 1984 have been compiled in table 3, an aggregate table that has been arranged by lease sale. An aggregate table representing these exploration plans arranged by planning and leasing areas has been provided in table 4. These tables are located at the back of this postlease section on pages 40-42.

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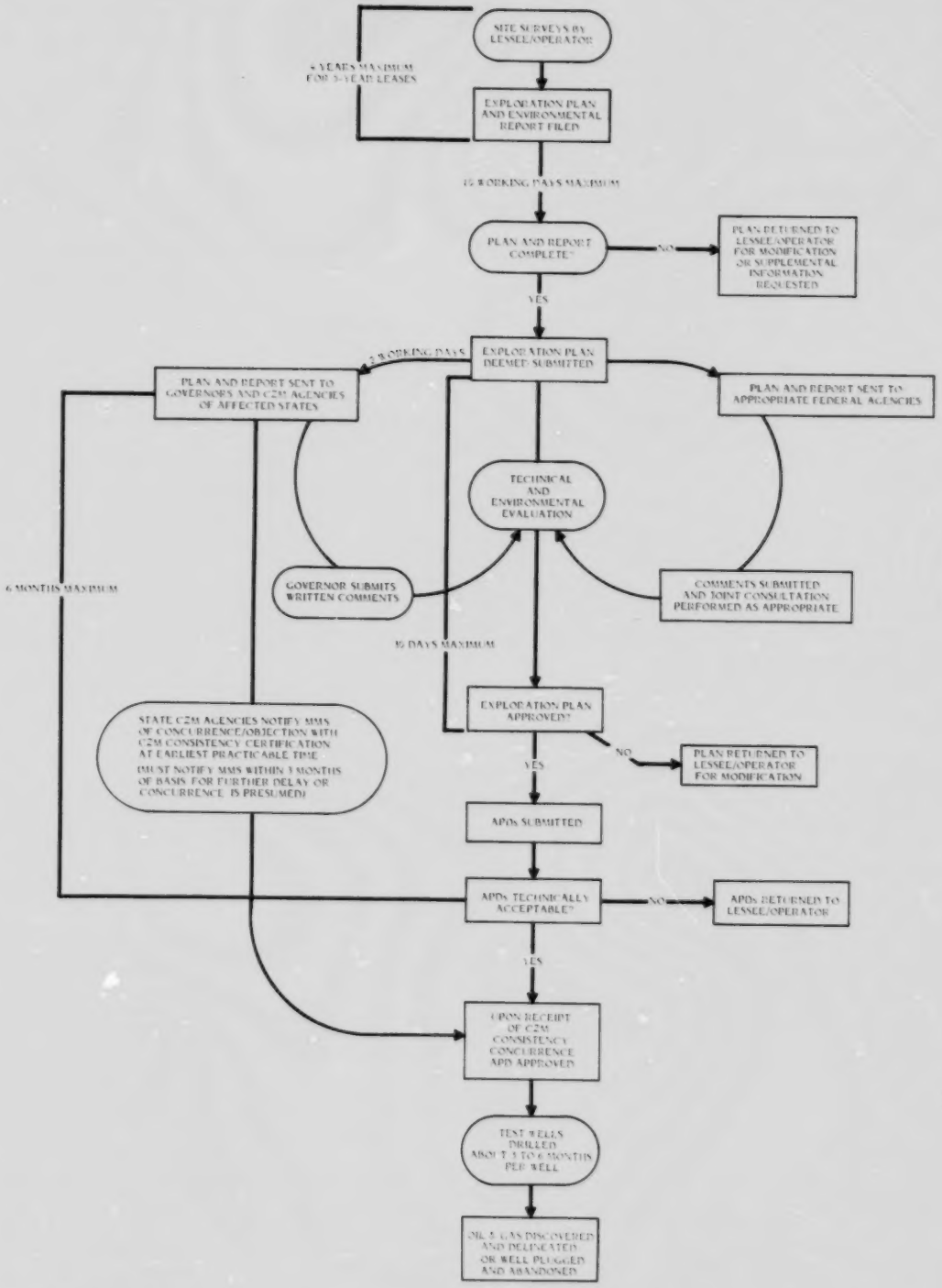
SITE SURVEYS BY LESSEE/OPERATOR
4 YEARS MAXIMUM FOR 5-YEAR LEASES
EXPLORATION PLAN AND ENVIRONMENTAL REPORT FILED
15 WORKING DAYS MAXIMUM
PLAN AND REPORT COMPLETE?
NO
PLAN RETURNED TO LESSEE/OPERATOR FOR MODIFICATION OR SUPPLEMENTAL INFORMATION REQUESTED
YES
EXPLORATION PLAN DEEMED SUBMITTED
3 WORKING DAYS
PLAN AND REPORT SENT TO GOVERNORS AND CZM AGENCIES OF AFFECTED STATES
PLAN AND REPORT SENT TO APPROPRIATE FEDERAL AGENCIES
TECHNICAL AND ENVIRONMENTAL EVALUATION
6 MONTHS MAXIMUM
GOVERNOR SUBMITS WRITTEN COMMENTS
COMMENTS SUBMITTED AND JOINT CONSULTATION PERFORMED AS APPROPRIATE
15 DAYS MAXIMUM
EXPLORATION PLAN APPROVED?
NO
PLAN RETURNED TO LESSEE/OPERATOR FOR MODIFICATION
STATE CZM AGENCIES NOTIFY MMS OF CONCURRENCE/OBJECTION WITH CZM CONSISTENCY CERTIFICATION AT EARLIEST PRACTICABLE TIME (MUST NOTIFY MMS WITHIN 3 MONTHS OF BASIS FOR FURTHER DELAY OR CONCURRENCE IS PRESUMED)
YES
APDs SUBMITTED
APDs TECHNICALLY ACCEPTABLE?
NO
APDs RETURNED TO LESSEE/OPERATOR
YES
UPON RECEIPT OF CZM CONSISTENCY CONCURRENCE APD APPROVED
TEST WELLS DRILLED AND 3 TO 6 MONTHS PER WELL
OIL & GAS DISCOVERED AND DELINEATED OR WELL PLUGGED AND ABANDONED

**FIGURE 10.**--Exploration plan review process. (MMS, Office of Offshore Information Services, 1985.)

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## STEP 9. EXPLORATION DRILLING

30 CFR 250.36

An Application for Permit to Drill (APD), Form MMS-331C, is filed with the appropriate regional MMS office by the lessee or operator, either along with or subsequent to submission of the exploration plan and supporting information, including a site-specific shallow hazards survey report. The APD requires extensive detail about a drilling program, such as the blowout prevention system and the casing, cementing, and drilling-mud programs. Information of this type is necessary to enable MMS engineers and technicians to evaluate a drilling program with respect to operational safety and pollution prevention measures.

The MMS staff reviews APDs in detail. Information provided in an APD forms the basis for the subsequent inspection of operations to ensure conformance with the permit. Approval of an APD requires an MMS-approved exploration plan and receipt of CZM consistency or presumptive concurrence. Significant deviations from the approved plan require that an environmental analysis be done in accordance with the procedures outlined earlier.

When approved by the appropriate District Supervisor, an APD constitutes a drilling permit. An additional APD must be filed and approved each time a well is deepened, reworked, redrilled, or plugged back. A sundry notice must be filed when any miscellaneous operation is conducted that is not specifically of a drilling nature, such as fracture treatment, perforating, or acidizing, or to gain approval of a change in previously approved permits.

Other Federal permits required before exploratory drilling include permits for aids to navigation from USCG, permits for placement of structures in offshore Federal waters from the U.S. Army Corps of Engineers, and National Pollutant Discharge Elimination System (NPDES) permits from EPA.

Following is a list of information on APDs that have appeared in previous editions of this Index.

- During the period of the first Gulf of Mexico Index (January 1978 to November 1980), 3,500 APDs were submitted.
- Between December 1980 and August 1982, the period covered by the second Index, 1,837 APDs were approved.
- Between September 1982 and July 1983, the period of the third edition of this Index, 939 APDs were approved.
- During the reporting period of this Index (August 1983 to October 1984), 1,494 APDs were approved.

Tables 3 and 4 (pp. 40-42) show approved APDs by lease sale and planning and leasing areas, respectively.

## STEP 10. ENVIRONMENTAL ANALYSIS FOR DEVELOPMENT AND PRODUCTION

30 CFR 250.34-2
40 CFR 1500-1508

The lessee must submit a development and production plan to the appropriate MMS regional office for approval before development and production activities can begin. A plan may apply to one or more leases or may be submitted by a group of lessees acting under an approved unitization, pooling, or drilling agreement.

The development and production plan includes (1) the specific work to be performed; (2) a description of drilling vessels, platforms, pipelines, or other facilities and operations located offshore, including safety and pollution prevention and control features and

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labor, material, and energy requirements; (3) the well locations; (4) current interpretations of all available relevant geological and geophysical data, which may include proprietary data; (5) a description of environmental safeguards and safety standards; (6) a time schedule of development and production activities; (7) an oil-spill contingency plan that sets forth the procedures, personnel, and equipment that are to be used for preventing, reporting, and cleaning up spills of oil and waste material; and (8) such other data as the Director may require.

On January 13, 1984, pursuant to 30 CFR 250.34-2(a)(2)(i), development and production plans are no longer required for leases in the Western and Central Gulf of Mexico Planning Areas. (These include all areas of the Gulf except those adjacent to the State of Florida.) However, information for these leases is still necessary to ensure conformance with the Act, other laws, applicable regulations, lease provisions, or as otherwise needed by MMS to carry out its functions and responsibilities. Information submitted to support proposed development and production activities in the Western and Central Gulf of Mexico Planning Areas is now referred to as a development operations coordination document (DOCD). A DOCD is considered a development and production plan for the purpose of any references in any law, regulation, lease provision, agreement, or other document referring to the preparation or submission of a plan (see NTL 84-1, February 10, 1984).

Submittal of the development and/or production plan initiates the platform verification process according to OCS Order No. 8. The purpose of this mandatory program is to ensure that offshore oil and gas platforms and other structures are designed to withstand the environmental and operational conditions to which they may be exposed. Under the Platform Verification Program, the MMS Regional Supervisor for Rules and Production is provided the technical advice necessary to evaluate the structural adequacy of fixed or bottom-founded platforms or other offshore structures and any major modifications to such structures. New platforms or other offshore structures are approved by the Regional Supervisor after a satisfactory in-house review and receipt of a favorable verification report prepared by a certified verification agent who has reviewed the platform design, inspected the fabrication, and observed the installation.

The development and production plan is accompanied by an ER and an oil-spill contingency plan. The ER includes (1) descriptions of the extent and timing of proposed offshore and land-based operations; (2) requirements for land, labor, material, and energy; (3) means proposed for transportation of oil and gas to shore and disposal of solid and liquid wastes; (4) cultural and historical concerns; (5) oceanographic, meteorological, and geological conditions; and (6) the significance of any impacts on aquatic biota caused by the use of a proposed site for development and production facilities. Guidelines addressing the preparation of an ER for lessees and operators submitting a development and/or production plan are detailed in NTL 80-6.

An oil-spill contingency plan identifies cleanup equipment and responsible agencies and personnel and sets forth detailed procedures to be employed in responding to an oil spill. As the possibility of an oil spill is greater during the development and production phases of the operation, the oil-spill contingency plan submitted with a development and production plan may include information about additional equipment and personnel. As with the exploration plan, USCG provides a technical review of the oil-spill contingency plan.

In addition, the lessee must furnish a copy of the certificates submitted to the affected States that assert that the proposed development and production activities comply with and will be conducted in a manner consistent with approved State CZM programs.

If the shallow hazards survey completed during the exploration phase does not cover the proposed site of production activity, addi-

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tional site-specific analysis and/or survey work will be required.

After an initial review by the appropriate MMS regional office, the development and production plan is either returned to the lessee for additional information or the lessee is notified that supplemental information must be submitted, or else the plan is deemed to be complete and the technical review process begins. This review process must be completed within 120 days after the plan is deemed to be complete; the review is similar to that for an exploration plan.

Copies of the development and production plan, the accompanying ER, and the oil-spill contingency plan are distributed to Federal agencies and the Governors of affected States. They also are made available for public review and comment through announcement in the **Federal Register**, excluding those proprietary portions of the plan determined to be exempt from disclosure under the Freedom of Information Act.

The ER gives particular attention to (1) seismic risks, (2) areas of high ecological sensitivity, (3) hazardous bottom conditions, and (4) the use of new and unusual technology. As with the review for exploration plans, development and production for oil and gas in the mature portions of the Gulf of Mexico have been determined to be activities that typically do not create impacts that are individually or cumulatively significant. A CER is prepared for each development and production plan in these areas to ensure that possibly significant impacts are not overlooked. Preparation of a CER allows the development and production plan to be excluded from further NEPA review. Where potential exists for a significant impact in environmentally sensitive areas or for every initial action proposed in nonmature areas of the Gulf, the environmental review is documented in an EA as provided for in the regulations implementing NEPA. When the Associate Director determines that approval of a development and production plan constitutes a major Federal action significantly affecting the quality of the human environment, a more thorough study is undertaken and an EIS is completed.

If the Regional Supervisor for Leasing and Environment, on behalf of the MMS Director, concludes that the EA indicates that approval of the plan will not result in significant effects on the quality of the marine, coastal, or human environment, then a FONSI is prepared. The FONSI presents the basis for that finding and includes a summary or copy of the EA. Notice of the availability of the EAs and FONSIs prepared for each offshore region is published every 3 months in the **Federal Register**.

Concurrent with MMS preparation of a CER, EA, or an EIS, States whose land and water use may be affected by the activities proposed in a development and production plan review the plan, the ER (which contains all the necessary data and information for CZM review), and the applicant's consistency certification. If the affected States determine that the project is consistent with their approved CZM programs, the States will concur with the consistency certification.

The plan cannot be approved by MMS until all affected States have concurred with the lessee's coastal zone consistency certification or their concurrence has been presumed on the basis of no State response within 90 days of plan submittal. In the event that a coastal State issues a negative determination, the lessee may modify the plan and resubmit it to MMS for reconsideration, or the lessee may appeal the determination to the Secretary of Commerce. Once approved, the plan is subject to later revision at the initiative either of the lessee or MMS. Significant revisions are submitted for approval in the same manner as a new development and production plan. The development and production plan review process is summarized in figure 11.

Following is a listing of development and production plans discussed in previous editions of this Index.

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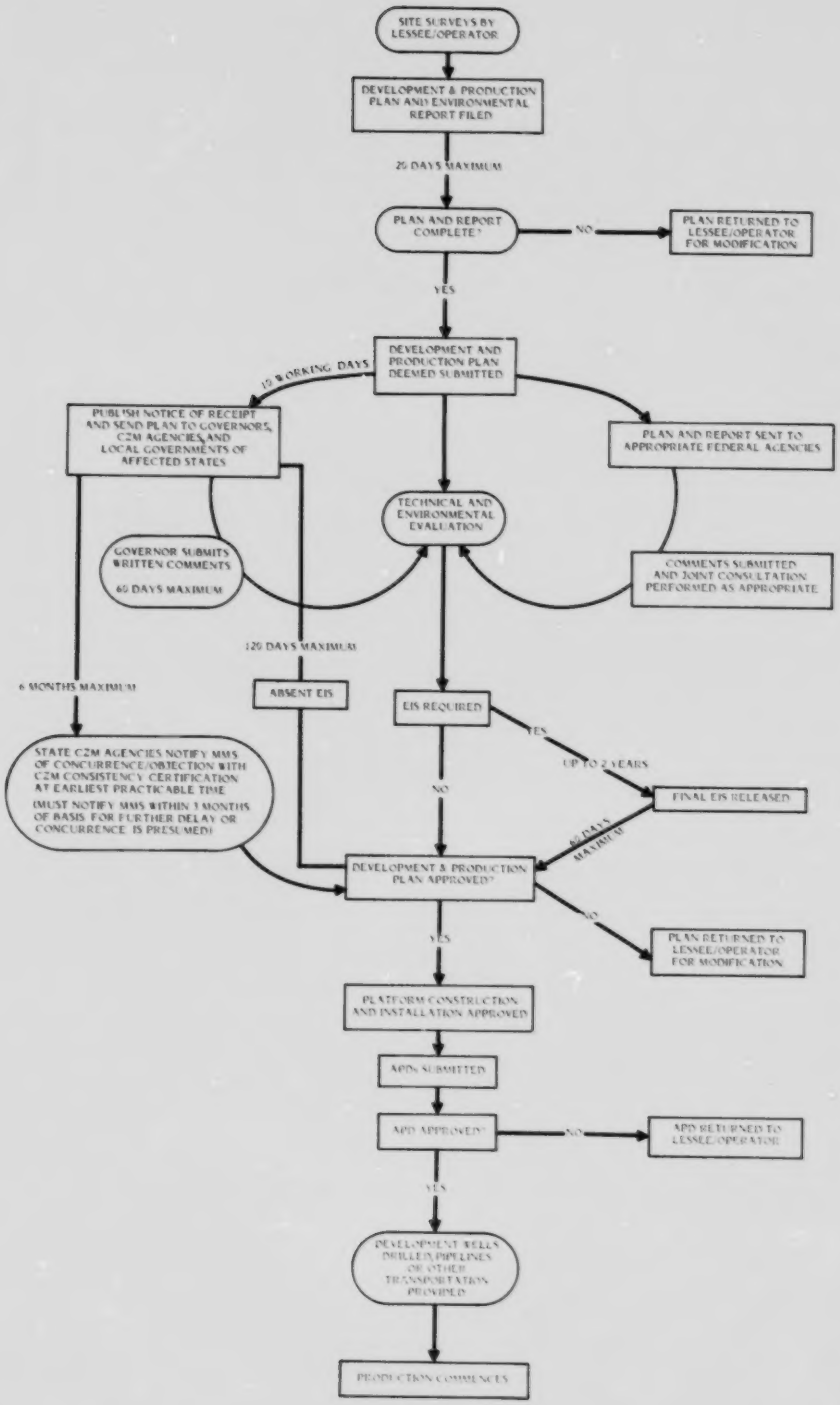
SITE SURVEYS BY LESSEE/OPERATOR
DEVELOPMENT & PRODUCTION PLAN AND ENVIRONMENTAL REPORT FILED
25 DAYS MAXIMUM
PLAN AND REPORT COMPLETE?
NO
PLAN RETURNED TO LESSEE/OPERATOR FOR MODIFICATION
YES
DEVELOPMENT AND PRODUCTION PLAN DEEMED SUBMITTED
10 WORKING DAYS
PUBLISH NOTICE OF RECEIPT AND SEND PLAN TO GOVERNORS, CZM AGENCIES AND LOCAL GOVERNMENTS OF AFFECTED STATES
PLAN AND REPORT SENT TO APPROPRIATE FEDERAL AGENCIES
TECHNICAL AND ENVIRONMENTAL EVALUATION
GOVERNOR SUBMITS WRITTEN COMMENTS
60 DAYS MAXIMUM
COMMENTS SUBMITTED AND JOINT CONSULTATION PERFORMED AS APPROPRIATE
120 DAYS MAXIMUM
6 MONTHS MAXIMUM
ABSENT EIS
EIS REQUIRED
YES
UP TO 2 YEARS
FINAL EIS RELEASED
STATE CZM AGENCIES NOTIFY MMS OF CONCURRENCE/OBJECTION WITH CZM CONSISTENCY CERTIFICATION AT EARLIEST PRACTICABLE TIME (MUST NOTIFY MMS WITHIN 3 MONTHS OF BASIS FOR FURTHER DELAY OR CONCURRENCE IS PRESUMED)
NO
60 DAYS MAXIMUM
DEVELOPMENT & PRODUCTION PLAN APPROVED?
NO
PLAN RETURNED TO LESSEE/OPERATOR FOR MODIFICATION
YES
PLATFORM CONSTRUCTION AND INSTALLATION APPROVED
APDs SUBMITTED
APD APPROVED?
NO
APD RETURNED TO LESSEE/OPERATOR
YES
DEVELOPMENT WELLS DRILLED, PIPELINES OR OTHER TRANSPORTATION PROVIDED
PRODUCTION COMMENCES

**FIGURE 11.**—Development and production plan review process. (MMS, Office of Offshore Information Services, 1985.)

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- **Gulf of Mexico Index (January 1978 - November 1980):** Section 6 leases, Lease Sales 1, 2, 3, 7, 9, 10, 12, 16, 19, 19A, 19B, 22, 23, 24, 25, 26, 33, 34, S1, 36, 37, 38, 38A, 41, 44, 47, 45, 51, 58, and 58A;

- **Gulf of Mexico Index (December 1980 - August 1982):** Section 6 leases, Lease Sales 1, 2, 3, 6, 7, 9, 10, 12, 14, 15, 16, 19A, 19B, 21, 22, 23, 24, 25, 26, 33, 34, S1, 36, 37, 38, 38A, 41, 44, 47, 45, 51, 58A, A62, 62, A66, and 66; and

- **Gulf of Mexico Index (September 1982 - July 1983):** Lease Sales 1, 3, 6, 7, 9, 10, 12, 14, 15, 16, 19A, 22, 23, 25, 26, 33, 34, S1, 36, 37, 38, 38A, 41, 44, 47, 45, 51, 58, 58A, A62, 62, A66, 66, 67, 69 (Part 1), and 72.

Information on plans approved between August 1983 and October 1984 can be found in tables 3 and 4. Table 3 is an aggregate table arranged by lease sale. An aggregate table presenting approved plans by planning and leasing areas is provided in table 4. (For purposes of presenting data in these tables, DOCDs are considered to be plans.)

## STEP 11. DEVELOPMENT AND PRODUCTION DRILLING

30 CFR 250.36

The lessee or operator files an APD with the MMS regional office after approval of the development and production plan and installation of a platform or other drilling structure. The APD includes specific information on the location, depth, and construction standards of wells. An APD approved by the appropriate District Supervisor of MMS constitutes a drilling permit. An additional APD must be filed and approved each time a well is deepened, reworked, redrilled, or plugged back. A sundry notice must be filed when any miscellaneous operation is conducted that is not specifically of a drilling nature, such as fracture treatment, perforating, or acidizing, or to obtain approval of any change in a previously approved permit. Significant deviations from the approved plan require that environmental analyses be done in accordance with procedures outlined earlier.

Other Federal permits required before platform installation and subsequent development drilling include permits for aids to navigation from USCG, permits from the U.S. Army Corps of Engineers for placing a structure offshore as related to obstruction to navigation or national defense, and NPDES permits from EPA.

Many APDs are processed in the Gulf of Mexico Region. During the period of this Index (August 1983 through October 1984), 1,494 APDs were approved. Data on APDs are presented in tables 3 and 4.

## STEP 12. PIPELINES

30 CFR 250.20
30 CFR 256.83-.101
40 CFR 1500-1508

Once commercially recoverable quantities of hydrocarbon are discovered and pipelining to shore is economically feasible, approval to construct a pipeline must be obtained. The MMS has permit jurisdiction over all OCS pipelines, subdivided as follows:

- Pipelines that are wholly contained within the boundaries of a single lease, the boundaries of unitized leases, or the boundaries of adjacent (not cornering) leases; and

- Pipelines that extend beyond these boundaries, except those in State waters. For pipelines on the OCS beyond the lease boundaries as described above, MMS issues rights-of-way for pipeline construction.

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## *TABLE 3.—Postlease phase history—plans and permits approved from August 1983 through October 1984, by lease sale*

| Lease sale | Date of sale | POEs[1] | Drilling permits | | | | DPPs[3] |
|---|---|---|---|---|---|---|---|
| | | | Exploration | Development | Unknown[2] | Total | |
| Section 6 leases | (before 1954) | 2 | 8 | 74 | 14 | 96 | 18 |
| 1 | 10/13/54 | 4 | 4 | 17 | 5 | 26 | 3 |
| 2 | 11/09/54 | - | 0 | 0 | 1 | 1 | - |
| 3 | 07/12/55 | 4 | 2 | 15 | 3 | 20 | 6 |
| 6 | 08/11/59 | - | 0 | 3 | 3 | 6 | 1 |
| 7 | 02/24/60 | 3 | 10 | 35 | 0 | 45 | 10 |
| 9 | 03/13/62 | 2 | 8 | 13 | 0 | 21 | 1 |
| 10 | 03/16/62 | 2 | 2 | 17 | 0 | 19 | 15 |
| 12 | 04/28/64 | - | 3 | 1 | 0 | 4 | - |
| 14 | 03/29/66 | - | 0 | 4 | 0 | 4 | 1 |
| 15 | 10/18/66 | - | 0 | 2 | 0 | 2 | - |
| 16 | 06/13/67 | 2 | 2 | 31 | 0 | 33 | 2 |
| 18 | 05/21/68 | - | 0 | 3 | 0 | 3 | 3 |
| 19 | 11/19/68 | - | 0 | 1 | 0 | 1 | - |
| 19A | 01/14/69 | - | 0 | 1 | 0 | 1 | - |
| 19B | 12/16/69 | - | 1 | 0 | 0 | 1 | 1 |
| 21 | 07/21/70 | 2 | 3 | 7 | 0 | 10 | 3 |
| 22 | 12/15/70 | 5 | 3 | 19 | 0 | 24 | 9 |
| 23 | 11/04/71 | 1 | 2 | 3 | 0 | 5 | - |
| 24 | 09/12/72 | - | 0 | 9 | 0 | 9 | 1 |
| 25 | 12/19/72 | 1 | 9 | 10 | 0 | 19 | 3 |
| 26 | 06/19/73 | 2 | 4 | 5 | 0 | 9 | 1 |
| 33 | 03/26/74 | 4 | 1 | 6 | 1 | 8 | 1 |
| 34 | 05/22/74 | 2 | 2 | 14 | 0 | 16 | 2 |
| 36 | 10/16/74 | 1 | 8 | 33 | 0 | 41 | 3 |
| 37 | 02/04/75 | 2 | 3 | 18 | 0 | 21 | 4 |
| 38 | 05/28/75 | 3[a] | 2 | 7 | 0 | 9 | 4[b] |
| 38A | 07/29/75 | 3 | 7 | 3 | 0 | 10 | 3 |
| 41 | 02/18/76 | 1 | 3 | 4 | 0 | 7 | 2 |
| 44 | 11/16/76 | 3 | 3 | 17 | 0 | 20 | 4[b] |
| 47 | 06/23/77 | - | 8 | 32 | 0 | 40 | 6 |
| 45 | 04/25/78 | 7[c] | 16 | 2 | 1 | 19 | 7 |
| 51 | 12/19/78 | 11 | 25 | 8 | 0 | 33 | 8[b] |
| 58 | 07/31/79 | 10 | 27 | 34 | 1 | 62 | 6[b] |
| 58A | 11/27/79 | 6 | 14 | 19 | 0 | 33 | 3 |
| A62 | 09/30/80 | 6 | 19 | 38 | 0 | 57 | 5[b] |
| 62 | 11/18/80 | 1 | 10 | 9 | 0 | 19 | 3 |
| A66 | 07/21/81 | 19[d] | 27 | 8 | 0 | 35 | 9[b] |
| 66 | 10/20/81 | 8 | 23 | 17 | 2 | 42 | 5 |
| 67 | 02/09/82 | 12 | 13 | 3 | 5 | 21 | 2 |
| 69 pt.1 | 11/17/82 | 12 | 21 | 4 | 5 | 30 | 7 |
| 69 pt.2 | 03/08/83 | 1 | 10 | 0 | 0 | 10 | - |
| 72 | 05/25/83 | 303[e] | 385 | 45 | 27 | 457 | 22[b] |
| 74 | 08/24/83 | 171 | 120 | 4 | 2 | 126 | 8[b] |
| 79 | 01/05/84 | 4 | - | - | - | - | - |
| 81 | 04/24/84 | 37 | 16 | 3 | 0 | 19 | 3 |
| **Total (All sales)** | | **657** | **826** | **598** | **70** | **1,494** | **193** |

[1]Plans of Exploration.
[2]Application for Permit to Drill forms used did not specify the type of drilling, and the type could not be otherwise determined.
[3]Development and Production Plans.
[a]Two plans counted under Sale 38 also included leases from Sales 10 and 72 (not counted again there).
[b]Eleven plans, counted under these sales, also included leases from Sales 10, 44, A62, 62, A66, 66, 69 part 1, 72 (one plan for each sale) and 74 (three plans).
[c]One plan counted under Sale 45 also included a lease from Sale 38.
[d]One plan counted under Sale A66 also included a lease from Sale 44.
[e]One plan counted under Sale 72 also included a lease from Sale 69 part 1.
- = Not available.

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***TABLE 4.—Postlease phase history—plans and permits approved from August 1983 through October 1984, by planning and leasing areas***

| Planning area | POEs[1] | Drilling permits | | | | DPPs[3] |
|---|---|---|---|---|---|---|
| | | Exploration | Development | Unknown[2] | Total | |
| **Eastern Gulf of Mexico** | | | | | | |
| Desoto Canyon | 1 | 0 | 0 | 0 | 0 | 0 |
| Destin Dome | 2 | 0 | 0 | 0 | 0 | 0 |
| **Subtotal** | **3** | **0** | **0** | **0** | **0** | **0** |
| **Central Gulf of Mexico** | | | | | | |
| Breton Sound | 0 | 0 | 0 | 0 | 0 | 1 |
| Chandeleur | 6[a] | 8 | 0 | 4 | 12 | 3 |
| East Cameron | 31 | 32 | 32 | 4 | 68 | 12[b] |
| south addition[4] | - | 0 | 1 | 0 | 1 | - |
| Ewing Bank | 17[c] | 13 | 0 | 0 | 13 | 0 |
| Grand Isle | 7 | 21 | 26 | 2 | 49 | 2 |
| Green Canyon | 37 | 23 | 0 | 1 | 24 | 0 |
| Main Pass | 37 | 63 | 61 | 3 | 127 | 6[b] |
| Mississippi Canyon | 22 | 16 | 14 | 0 | 30 | 1 |
| Mobile | 8 | 5 | 0 | 2 | 7 | 0 |
| Sabine Pass | 1 | 2 | 0 | 0 | 2 | 0 |
| Ship Shoal | 44 | 80 | 71 | 11 | 162 | 20 |
| south addition[4] | - | 3 | 0 | 0 | 3 | - |
| South Bay Marchand | 0 | 0 | 3 | 0 | 3 | 0 |
| South Pass | 7 | 12 | 16 | 3 | 31 | 3 |
| South Pelto | 2 | 3 | 35 | 1 | 39 | 3 |
| South Timbalier | 30 | 32 | 67 | 4 | 103 | 14 |
| south addition[4] | - | 9 | 0 | 0 | 9 | - |
| Vermilion | 44[d] | 68 | 28 | 5 | 101 | 15 |
| south addition[4] | - | 3 | 0 | 0 | 3 | - |
| Viosca Knoll | 8 | 10 | 0 | 0 | 10 | 0 |
| West Cameron | 62 | 106 | 63 | 6 | 175 | 26[b] |
| West Delta | 16[e] | 29 | 23 | 2 | 54 | 13[b] |
| **Subtotal** | **379** | **538** | **440** | **48** | **1026** | **119** |

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***TABLE 4.—Postlease phase history—plans and permits approved from August 1983 through October 1984, by planning and leasing areas—Continued***

| Planning area | POEs[1] | Drilling permits | | | | DPPs[3] |
|---|---|---|---|---|---|---|
| | | Exploration | Development | Unknown[2] | Total | |
| **Western Gulf of Mexico** | | | | | | |
| Brazos | 19 | 26 | 6 | 0 | 32 | 5[b] |
| south addition[4] | - | 1 | 1 | 0 | 2 | - |
| East Breaks | 18 | 8 | 10 | 0 | 18 | 3 |
| Eugene Island | 51[f] | 86 | 64 | 12 | 162 | 28[b] |
| Galveston | 22 | 15 | 0 | 0 | 15 | 2 |
| Garden Banks | 11 | 7 | 0 | 1 | 8 | 0 |
| High Island | 71 | 53 | 23 | 2 | 78 | 11 |
| east[4] | - | 1 | 0 | 0 | 1 | - |
| east addition[4] | - | 4 | 0 | 0 | 4 | - |
| south addition[4] | - | 1 | 0 | 0 | 1 | - |
| Matagorda Island | 20 | 27 | 23 | 0 | 50 | 8 |
| Mustang Island | 27 | 25 | 11 | 0 | 36 | 3 |
| North Padre Island | 16 | 12 | 0 | 2 | 14 | 0 |
| South Marsh Island | 19 | 22 | 20 | 5 | 47 | 16[b] |
| South Padre Island | 1 | 0 | 0 | 0 | 0 | 0 |
| **Subtotal** | **275** | **288** | **158** | **22** | **468** | **76** |
| **Total Gulf of Mexico** | **657** | **826** | **598** | **70** | **1,494** | **195** |

[1]Plans of Exploration.
[2]Application for Permit to Drill forms used did not distinguish between exploration and development drilling, and the type of drilling could not otherwise be determined.
[3]Development and Production Plans.
[4]The information source (MMS log books) used to tabulate exploration and development/production plans did not differentiate between planning areas and their additions. Blanks in these areas do not necessarily mean that there were no plans for these additions (e.g., some of the 31 East Cameron POEs may include the south addition).
[a]One exploration plan counted under the East Cameron area also included the Vermilion area (not counted there to avoid double-counting plans).
[b]Seven plans, counted under these areas, also included the South Timbalier area (one plan), the West Delta area (two plans), the Eugene Island area (one plan), and the High Island area (three plans).
[c]One exploration plan counted under the Ewing Bank area also included the Ship Shoal area.
[d]One plan counted under the Vermilion area also included the South Marsh Island area.
[e]One plan counted under the West Delta area also included the South Pass area.
[f]Three plans counted under the Eugene Island area also included the Ewing Bank, Green Canyon, and Ship Shoal areas.
- = Not available.

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Lease term and rights-of-way permits are granted by the Regional Director on behalf of the Director of MMS. The Fish and Wildlife Service prepares and submits comments to MMS concerning potential effects on biological resources that might result from certain lease term and rights-of-way pipeline construction. Also, MMS performs a technical review and makes a hazards analysis of the proposed pipeline routes. A CER, EA, or EIS is prepared in accordance with applicable policies and guidelines.

In addition, the U.S. Army Corps of Engineers requires permits for the construction of pipelines in navigable waters. Regulations for offshore pipelines also are issued by DOT's Materials Transportation Bureau and by the Federal Energy Regulatory Commission for natural gas pipelines. State and local agencies are responsible for pipeline regulation in State waters and their coastal zones.

All pipelines must be designed to be protected against corrosion, water currents, storm scouring, soft bottoms, and other environmental factors. The MMS also requires that pipelines be installed and maintained so that they are compatible both with commercial fishing operations that employ bottom trawls and with other uses of the sea. For pipelines off the lease, conditions for approval include meeting DOT regulations. An MOU between DOT and DOI delineates the jurisdictional pipeline responsibilities of the two Agencies.

Besides approving pipeline applications, MMS inspects the installation of all new pipelines, as well as all existing pipelines under its jurisdiction, for compliance with appropriate OCS rules and lease stipulations.

A computerized printout of pipeline permits by operator for the Gulf of Mexico Region is available for a fee from the Minerals Management Service, Gulf of Mexico OCS Region, Public Records Office, P.O. Box 7944, Metairie, LA 70010.

Pipeline guidelines and procedures for companies submitting pipeline applications are addressed in the MMS OCS Report 84-0015, dated March 1984.

## STEP 13. PRODUCTION

30 CFR 250.12, 250.37 - 250.72
250.90 - 250.96

With the approval of MMS, individual lessees determine production rates. The rate at which formations release their oil and gas depends on the particular set of reservoir conditions in each well or field. If a field is produced too fast the total volume of oil that is recovered will decrease. For this reason, the first step in new producing wells is to calculate the Maximum Efficiency Recovery (MER) rate. Throughout the life of the well, the MER is periodically recalculated, and the production rate is adjusted accordingly. After production begins, monthly reports of operations and royalty payments must be submitted to MMS. Lessees also must comply with all safety and operating requirements of MMS and USCG. In addition, lessees must obtain MMS approval of any significant modification of production equipment or procedures.

The term of a particular lease may be extended beyond the initial term when (1) the lessee is producing oil or gas; (2) the lessee is conducting drilling, completion, or workover operations; or (3) the lessee has an approved "suspension of operations or production," which provides for continuation of a lease for reasons beyond the lessee's control.

A suspension of operations or production may be requested by a lessee (and approved by MMS) or it may be ordered by MMS. A lessee may request and receive approval for a suspension when unforeseen circumstances necessitate a significant delay. Such circumstances would include environmental or safety problems; difficult development or transportation

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construction conditions; long waiting periods for necessary Federal, State, or local permits or licenses; or other unforeseen conditions.

In such a case, the lessee submits relevant data to the MMS regional office to show that there are indeed plans to develop the lease and that these plans are in the national interest. If the request is found to meet MMS requirements, a suspension is granted with conditions. These conditions stipulate that the lessee develop and explore the lease in a proper and efficient manner.

The lease also may be extended if the Regional Director determines that a suspension is in the national interest and will facilitate proper development of a lease, will allow for the construction of, or the negotiation for the use of, transportation facilities, or will facilitate the installation of equipment deemed necessary for safety or environmental reasons (30 CFR 250.12).

Further details concerning production can be obtained from the **Gulf of Mexico Summary Report (Outer Continental Shelf Oil and Gas Activities in the Gulf of Mexico and their Onshore Impacts: A Summary Report), September 1980,** and the updates to that report.

Quarterly and annual reports of operations in the Gulf of Mexico Region are available for review at the Public Records Office of the MMS, Gulf of Mexico OCS Regional Office (see inside front cover for address and telephone number).

## STEP 14. LEASE CANCELLATION, EXPIRATION, OR RELINQUISHMENT

30 CFR 250.12, 250.15
30 CFR 256.77

Leases will expire at the end of their initial term unless they are extended through production or approved drilling or workover operations or if a suspension has been granted by MMS. Leases also may be surrendered by the lessee by filing a written relinquishment with the appropriate MMS regional office.

Operations on a producing lease may be canceled by an appropriate proceeding in any U.S. district court having jurisdiction under the OCSLA, as amended, for noncompliance with the OCSLA, applicable regulations, or lease terms. Nonproducing leases are subject to Federal review, and the lease may be canceled by the Secretary of the Interior, subject to judicial review, for noncompliance with the provisions of the OCSLA, applicable regulations, or lease terms. The Secretary of the Interior may cancel a lease (1) when continued activity under the lease could potentially cause serious harm or damage to life, property, any mineral resource, national security, or the marine, coastal, or human environment; (2) when the threat of harm or damage will not disappear or decrease to an acceptable extent within a reasonable period of time; or (3) when the advantages of cancellation outweigh the advantages of continuing the lease in effect.

At the time of abandonment, well bores must be plugged and wellheads cut off below the surface of the ocean floor, and other bottom obstructions must be removed. The provisions of the lease require that platforms be dismantled and removed no later than 1 year after production ceases.

The MMS is responsible for all official record title actions. Official administrative records are maintained by each MMS regional office and are available to the public. Information or active leases for the Gulf of Mexico OCS Region can be obtained for a fee by contacting the MMS Gulf of Mexico OCS Regional Office (see inside front cover for address and telephone number).

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# 4. Ongoing Programs

Four programs generate, review, or report offshore-related data used on a continuous basis from prelease activities through production. These programs are MMS's geological and geophysical surveys and analyses, the OCS Advisory Board's components, regional environmental and socioeconomic studies, and the OCS Oil and Gas Information Program. Each of these programs is described in this chapter.

## GEOLOGICAL AND GEOPHYSICAL SURVEYS AND ANALYSES

30 CFR 250, 251 and 40 CFR 1500-1508

Geological and geophysical surveys and analyses provide most of the resource information used by the Government and industry on the oil and gas potentials of various offshore areas. The collection of geological and geophysical data begins before the lease sale and continues throughout the offshore leasing process. The MMS regional offices issue prelease geological and geophysical exploration permits to specialized data-collection firms and industry. Postlease surveys and analyses are conducted under the regulations of 30 CFR 250 as they relate to operations on a lease.

Because past seismic survey operations conducted by OCS permit holders have, on occasion, resulted in loss of or damage to fixed fishing gear and State-managed fisheries resources, a number of working arrangements have been made between MMS and individual States. These working arrangements address those geological and geophysical permits issued pursuant to 30 CFR 251, that is, geological and geophysical activities not authorized under a lease on the OCS.

Before issuing any permit to conduct geological and geophysical surveys, MMS conducts an analysis of the potential effects of the proposed survey activities. As with the procedures for exploration, development and production plans and pipeline applications, these analyses are documented in a CER, EA, or EIS, as provided for in the regulations implementing NEPA. In instances where the permit involves drilling, the use of solid or liquid explosives, or the drilling of DST holes, the environmental analysis is documented in an EA. The EISs are not required in most cases as FONSIs are prepared for these actions in accordance with the procedures outlined. However, if it is determined that the activities proposed would constitute a major Federal action significantly affecting the quality of the human environment, an EIS is prepared. It should be noted, however, that the issuance of permits involving drilling or the use of explosives is rare. For example, since August 1983, no shallow drilling geological permits have been issued, and only eight permits have been issued involving the use of explosives. Two DST wells have been drilled on the Gulf of Mexico OCS, one in South Padre Island, Block 1076-L, and the other in Mustang Island, Block A-29.

All permit holders must immediately notify the Director of MMS in writing of the acquisition of any geological or geophysical data or information collected under the permit. The Director may inspect and require submission, on a proprietary basis, of all data



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and information. Unless the release of geological or geophysical data and information is governed by a contractual agreement that establishes specific terms for public release, the disclosure regulations (30 CFR 251.14) in effect on the date a permit is issued will govern the public release of such data and information obtained and submitted to the Director under that permit. Public data and information are made available through the National Geophysical Data Center, National Oceanic and Atmospheric Administration, and may be inspected at the MMS regional office that acquired the data.

States may review relevant proprietary data and information that have been submitted to the Director of MMS at locations designated by the Secretary of the Interior, pursuant to section 26(d)(2) of the OCSLA, as amended. This section requires that an official be appointed by the Governor to inspect the data and information and that the State be subject to certain provisions of confidentiality.

## OCS ADVISORY BOARD

The OCS Advisory Board was established in October 1975 to provide DOI with a formal mechanism to receive comments and recommendations from coastal State officials and to provide a forum for effective dialog among coastal States and the various Federal agencies involved in OCS development. In 1978, the board was restructured to better accommodate the need for greater cooperation and coordination. In its current form, the OCS Advisory Board is composed of three elements: the Policy Committee, the Scientific Committee, and six Regional Technical Working Groups. The board's three-part structure provides for specialized consideration of the policy, scientific, and technical aspects of the OCS leasing programs and balances State, local, Federal, public, and private interests. The board advises the Secretary of the Interior and other DOI officers on the performance of discretionary functions of the OCSLA, as amended (43 U.S.C. 1331 et seq.), including all aspects of leasing, exploration, development, and production of OCS resources.

### Policy Committee

At its inception, the OCS Advisory Board consisted solely of what is now the Policy Committee. The committee advises the Secretary on the policy aspects of the discretionary functions of the OCS program, including both pre- and postlease activities. The committee comprises Governors' representatives from 22 coastal States and Pennsylvania and Hawaii, 12 public and private members, and 7 ex-officio Federal members. The board and the Policy Committee report to the Interior Secretary through the MMS Director. A list of current Policy Committee members is shown in table 5.

### Scientific Committee

The Scientific Committee is composed of 15 scientists from disciplines important to MMS's Environmental Studies Program. The committee reports directly to the MMS Director and advises on the appropriateness, feasibility, and scientific value of the Environmental Studies Program. A list of current Scientific Committee members is shown in table 6.

### Regional Technical Working Groups

In each of the four OCS leasing regions (Atlantic, Gulf of Mexico, Pacific, and Alaska) Regional Technical Working Groups (RTWG) have been established. Currently there are six RTWGs, one each in the Gulf of Mexico, Pacific, and Alaska OCS Regions and three in the Atlantic OCS Region, one in each of the planning areas--North Atlantic, Mid-Atlantic, and South Atlantic.

The RTWGs review and comment on technical matters of regional concern regarding prelease and postlease activities and on environmental study requirements for each offshore leasing region. In the past, several RTWGs also have participated in the development of regional transportation management

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*TABLE 5.—OCS Advisory Board Policy Committee membership*

| Member | Affiliation |
|---|---|
| **Department of the Interior** | |
| William Bettenberg | Director, MMS |
| (vacant) | Assistant Secretary for Land and Minerals Management |
| (vacant) | Assistant Secretary for Fish and Wildlife and Parks |
| Jack Rigg | Associate Director for Offshore, MMS |
| Michele Tetley (Executive Secretary) | Chief, Office of Offshore Information Services, MMS |
| **State** | |
| Ernest Mancini | Alabama |
| Lennie Boston | Alaska |
| Gordon Duffy | California |
| Joseph Belanger | Connecticut |
| Robert Touhey | Delaware |
| Murice Rinkel | Florida |
| William McLemore | Georgia |
| Kent Keith | Hawaii |
| Charles Groat (Alternate) | Louisiana |
| Charles Colgan | Maine |
| John Griffin | Maryland |
| James Hoyte | Massachusetts |
| Charles Deaton | Mississippi |
| David Scott | New Hampshire |
| Larry Schmidt | New Jersey |
| Greg Sovas (Alternate) | New York |
| Stephen Conrad | North Carolina |
| Pat Amedeo | Oregon |
| Arthur Socolow (Alternate) | Pennsylvania |
| Bruce Vild (Alternate) | Rhode Island |
| Patricia Jerman | South Carolina |
| William Fisher | Texas |
| J. B. Jackson | Virginia |
| Donald Moos | Washington |
| **Private Sector** | |
| James Dunlop | Gas |
| Hal Scott | Environmental |
| Sarah Chasis | Environmental |
| Tom Rollins | Oil |
| O.J. Shirley | Oil |
| Robert Kallman | Local government |
| Jeffrey Robert Stephan | Fisheries |
| Carl Sullivan | Fisheries |
| August John Felando | Fisheries |
| Carroll Hill | Small business |
| Paul Kelly | Offshore support industry |
| Ralph Cormany | Other |
| **Ex-Officio (Federal)** | |
| Fred Sterns | Department of Defense |
| David Beecy | Department of Energy |
| Allan Hirsch | Environmental Protection Agency |
| Peter Tweedt | Department of Commerce |
| Joseph Canny | Department of Transportation |
| Harry Marshall | Department of State |
| **At Large (Federal)** | |
| J.J. Simmons | Interstate Commerce Commission |

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*TABLE 6.—OCS Advisory Board Scientific Committee membership*

| Member | Discipline |
|---|---|
| Robert Ayers, Jr. | Physical chemistry |
| Donald Boesch | Benthic ecology |
| Randolph Bromery | Geophysics |
| William Freudenburg | Anthropology/sociology |
| Thomas Grigalunas | Resource economics |
| Donald Hood | Biological oceanography |
| John Kraeuter | Benthic ecology |
| Bruce Mate | Marine mammals |
| William Quinn | Meteorology |
| George Rogers | Economics |
| Jerry Schubel | Physical oceanography |
| Leah Smith | Economics |
| Dale Straughan | Biological oceanography |
| John Teal | Marine ecology |

plans. These plans are now discretionary as a result of the Director's memorandum of May 24, 1983. Each RTWG is composed of representatives with technical expertise from the affected States; MMS; other Federal agencies (such as the Fish and Wildlife Service, EPA, the National Oceanic and Atmospheric Administration, USCG, the Army Corps of Engineers, and the Department of Energy); the oil-and-gas industry; and other special and private interests that exist in the leasing region. Every RTWG is co-chaired by the Regional Director or designee and by a State representative, who is elected by all the State representatives on the committee (or the chair is rotated among the State members). A list of current Gulf of Mexico Region RTWG members is shown in table 7.

## REGIONAL ENVIRONMENTAL AND SOCIOECONOMIC STUDIES

30 CFR 256.82

The Environmental Studies Program was initiated in 1973 with a series of information syntheses on the environmental characteristics of the various offshore regions. The program was formalized in section 20 of the OCSLA, as amended, which requires the Secretary to conduct a study of any area or region included in any oil-and-gas lease sale in order to establish information needed to assess the human, marine, and coastal environments of the OCS and the coastal areas that may be affected by oil-and-gas development. The Environmental Studies Program is a multidisciplinary program employing the physical, chemical, and biological sciences to examine impacts of offshore development on air quality, marine and coastal environments, the human environment, and other special concerns.

In response to the Secretary's streamlining initiatives in 1982, the scope and emphasis of the Environmental Studies Program was changed to include postlease monitoring and lease management decisions, as well as prelease assessment. Thus, the Environmental Studies Program begins providing information for the development of the 5-year leasing schedule, continues to address prelease and lease-related decisions, and develops monitoring information for postlease management decisions. Information is acquired to answer questions regarding the following:

- location and characteristics of sensitive areas of environmental concern;

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*TABLE 7.—OCS Advisory Board Gulf of Mexico Regional Technical Working Group membership*

| Member | Affiliation |
|---|---|
| John Rankin (Co-chair) | Minerals Management Service Regional Director |
| Charles Groat (Co-chair) | State of Louisiana |
| L. F. Baehr | U.S. Army Corps of Engineers |
| James Barkuloo | Fish and Wildlife Service |
| Don Moore | National Oceanic and Atmospheric Administration |
| Cmdr. Charles Havnen | Coast Guard, Eighth District |
| Clinton Spotts | Environmental Protection Agency |
| Ernest Mancini | State of Alabama |
| Deborah Tucker | State of Florida |
| Richard Leard | State of Mississippi |
| E. G. Wermund | State of Texas |
| Roger Anderson | Private Sector |
| John Bohannon | Private Sector |
| Bethlyn McCloskey | Private Sector |
| Richard Rezak | Private Sector |
| J. E. Thomas | Private Sector |
| Michael Tomasso | Private Sector |

NOTE: For further information concerning the Gulf of Mexico Regional Technical Working Group, contact the RTWG Coordinator at (504) 838-0627.

- probability of adverse impacts of industry operations on the human, biological, and physical environments;
- design and evaluation of stipulations to protect or mitigate adverse impacts to these sensitive areas and to endangered species and commercially and recreationally important fisheries; and
- evaluation of social, economic, and physical impacts.

The Environmental Studies Program is under the direction of MMS's Deputy Associate Director for Offshore Leasing. The program consists of an environmental studies group in each of the MMS regional offices (Atlantic, Gulf of Mexico, Pacific, and Alaska) and in the MMS Branch of Environmental Studies in Washington, D.C. The regional offices are responsible for developing statements of regional study needs (Regional Studies Plans), preparing statements of work, evaluating the technical merit of responses to requests for proposals, and monitoring contractor performance on all approved regional studies. The Branch of Environmental Studies within the Environmental Assessment Division has overall management, planning, and budgeting responsibilities for the studies program. The Chief of the Branch of Environmental Studies is responsible for the technical adequacy of the program, and the regional offices are responsible for the technical adequacy of the program's component studies. The Branch of Environmental Studies (1) prepares program guidance for the MMS regional offices to use in the preparation of Regional Studies Plans, (2) establishes national priorities, (3) compiles the National Study List, and (4) manages some generic studies that are applicable to more than one leasing region.

The process of developing the National Study List usually begins when the Branch of Environmental Studies, through the Environmental Assessment Division and the Deputy Associate Director, establishes the schedule within which the regional offices are to prepare Regional Studies Plans. These plans include statements of regional study needs,

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the regional priority of these needs, and a brief description of each proposed study. The Branch of Environmental Studies reviews draft Regional Studies Plans from all four regional offices for programmatic consistency, cost, use of ranking criteria, and relevance to issues of national interest. The regional offices revise their respective study plans accordingly. Following the submission of final study plans, the Branch of Environmental Studies compiles a National Study List. Copies of the current Regional Studies Plans may be obtained by contacting the appropriate MMS regional office. The National Study List is available from the Branch of Environmental Studies.

The MMS regional offices administer the studies on the approved study list unless a proposed change is approved by the MMS Deputy Associate Director. This permits the regional offices to respond to unanticipated study needs that arise between compilations of study plans, and it also ensures the continuity of program initiatives.

The RTWGs also are involved in the development of regional study programs. These groups focus primarily on the determination of issues that require study and their importance to regional decisionmakers. In addition, RTWGs review the draft Regional Studies Plan and are briefed on the status of regional studies on the National Study List. The groups are advised of studies that are approved for funding, and they may also be involved in the design of and decisions on approved studies.

The Scientific Committee of the OCS Advisory Board provides guidance on the studies program to the Director of MMS. The Chief, Environmental Studies Branch, as Executive Secretary is the point of contact for their recommendations. In addition to providing reviews of the Regional Studies Plans in terms of feasibility and scientific merit, they also provide recommendations concerning the long-range development of the studies program and new program initiatives.

The end result of the Environmental Studies Program is a comprehensive base of information for each offshore area, which is used by MMS in its decision process. Copies of the various studies are made available for review at the MMS regional offices. Limited numbers of copies are available for distribution. Final reports also are available for purchase through the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161; telephone: (703) 487-4650.

## OCS OIL AND GAS INFORMATION PROGRAM

30 CFR 252
30 CFR 256.10

Section 26 of the OCSLA, as amended in 1978, calls for the establishment of an OCS Oil and Gas Information Program. This program requires the collection of information and public dissemination of oil and gas data and information that result from exploration, development, and production activities. Procedures and requirements established for OCSIP, managed by the Office of Offshore Information Services, are contained in 30 CFR 252.3, 252.4, and 252.5 and 30 CFR 256.10. These regulations require that the Director of MMS make available to affected States a regional summary report of information and data. The summary reports are designed to assist State and local governments in planning for onshore impacts of potential offshore oil and gas development and production. The regulations also require the Director of MMS to provide affected States with an index, such as this document, that lists all relevant, actual or proposed programs, plans, reports, EISs, and lease sale information used by the Federal Government in its decision process. Neither the summary reports nor the indexes contain proprietary information.

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# Appendix A. Listing of Federal Agencies—Headquarters and Regional

Appendix A provides a listing of the major Federal agencies involved in the offshore leasing process. Numerous agencies are involved in this process, and not all are mentioned in this Index. For agencies included, a contact is indicated. Should further information be desired, an attempt has been made to provide general locator telephone numbers for listed agencies and departments. These numbers are listed adjacent to the agency title in **boldface.**

Mailing addresses and telephone numbers are listed alphabetically by department or agency headquarters; the participating regional or field offices follow immediately after the headquarters offices with which they are associated. To prepare a full mailing address, use the name of the agency or department, the particular office designation you wish, and any other pertinent information such as mail-stop code or box number.

**COUNCIL ON ENVIRONMENTAL QUALITY (202) 395-5700**

722 Jackson Place, NW.
Washington, DC 20006

A. Alan Hill, Chairman. . . . . .(202) 395-5080

**DEPARTMENT OF COMMERCE. . . . . .(202) 377-2000**

**National Oceanic and Atmospheric Administration. . . . . .(301) 443-8910**

6210 Executive Boulevard
Rockville, MD 20852

Herbert C. Hoover Building
14th and Constitution Avenue, NW.
Room 5128
Washington, DC 20230

Anthony J. Calio, Administrator (Acting) . . . (202) 377-3567

National Environmental Satellite
Data and Information Service

National Geophysical Data Center
NOAA/NESDIC
Mail Code E/GC
325 Broadway
Boulder, CO 80303

Michael A. Chinnery, Director . . . . .(303) 497-6215

DEPARTMENT OF COMMERCE--Continued

National Marine Fisheries Service

Habitat Conservation Division
Page Building 2, Room 178
3300 Whitehaven Street, NW.
Washington, DC 20235

Kenneth R. Roberts, Division Director. (202) 634-7490

National Technical Information Center. . . . .(703) 487-4600
5285 Port Royal Road
Springfield, VA 22161

Dr. Joseph Caponio, Director . . . . . .(703) 487-4636

Ocean Service and Coastal Zone Management

Office of Ocean and Coastal Resource Management*
3300 Whitehaven Street, NW.
Washington, DC 20235
(*formerly the Office of Coastal Zone Management)

Peter L. Tweedt, Director . . . . . .(202) 634-4232

Coastal Programs Division
James P. Burgess, Chief (Acting). . . . .(202) 634-1672

Gulf Regional Manager
Ann Berger-Blundon. . . . . .(202) 254-7546



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DEPARTMENT OF COMMERCE--Continued

Sanctuary Programs Division
Nancy Foster, Chief . . . . . .(202) 634-4236

National Marine Pollution Program Office
11400 Rockville Pike, Room 610
Rockwall Building
Rockville, MD 20852

Andrew Robertson, Director. . . . . .(301) 443-8823

Oceanic and Atmospheric Research

Sea Grant
6010 Executive Boulevard
Rockville, MD 20852

Ned A. Ostenso, Director. . . . . (301) 443-8923

**DEPARTMENT OF DEFENSE . . . . . .(202) 545-6700**

Office of the Assistant Secretary
Manpower, Installations and Logistics
The Pentagon, Room 3E808
Washington, DC 20301-4000

Lawrence J. Korb, Assistant Secretary . . . .(202) 695-5254

**U.S. Army Corps of Engineers**

DAEN-CWZ-P . . . . . .(202) 272-0103
Pulaski Building
20 Massachusetts Avenue, NW.
Washington, DC 20314

Lt. Col. Ronald G. Kelsey, Assistant Director of
Civil Works, Environmental Program

Office of the Chief of Engineers. . . . . .(202) 272-0200
(Regulatory Functions)
DAEN-CWO-N

Lt. Gen. E.R. Heiberg III,
Chief of Engineers . . . . . .(202) 272-0001

B. N. Goode, Chief, Regulatory Branch. . . . .(202) 272-0199

U.S. Army Corps of Engineers Permit Office:

Galveston District . . . . . .(409) 766-3982
Attn: SWGCO-R
P.O. Box 1229
Galveston, TX 77553

Mobile District . . . . . .(205) 690-2660
Attn: SAMOP-S
P.O. Box 2288
Mobile, AL 36628

New Orleans District . . . . . (504) 838-2255
Attn: LMNOD-F
P.O. Box 60267
New Orleans, LA 70160

**DEPARTMENT OF THE INTERIOR . . . . . .(202) 343-7220**

Office of the Secretary
18th and C Streets, NW.
Room 6151
Washington, DC 20240

Donald P. Hodel, Secretary . . . . . (202) 343-7351

**Assistant Secretaries**

Fish and Wildlife and Parks
Room 3156

Craig Potter (Acting) . . . . . .(202) 343-4416

Indian Affairs
Room 4160

(Vacant) . . . . . .(202) 343-7163

Land and Minerals Management
Room 6611

J. Steven Griles (Acting) . . . . . (202) 343-2191

Policy, Budget and Administration
Room 5100

Richard R. Hite, Principal Deputy . . . . .(202) 343-6182

Water and Science
Room 6660

Robert N. Broadbent . . . . . .(202) 343-2186

**Fish and Wildlife Service**

18th and C Streets, NW.
Room 3256
Washington, DC 20240

Robert A. Jantzen, Director. . . . . .(202) 343-4717

Biological Services Division
1717 H Street, NW.
Room 555
Washington, DC 20240

Edward T. LaRoe . . . . . .(202) 653-5948

Ecological Services Division
18th and C Streets, NW.
Room 400

Marvin Moriarty, Chief . . . . . (202) 343-2618

Branch of OCS Operations
Raymond Fritz, Chief . . . . . (202) 343-3245

Fish and Wildlife Service Regional Offices:

Region 2 - Western and
Central Gulf of Mexico:
OCS Coordinator. . . . . .(505) 766-3590
P.O. Box 1306
Albuquerque, NM 87103

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DEPARTMENT OF THE INTERIOR—Continued

Region 4 - Central and
Eastern Gulf of Mexico:
OCS Coordinator . . . . . .(404) 221-6343
Richard B. Russell Federal Building
75 Spring Street, SW.
Suite 1276
Atlanta, GA 30303

**Geological Survey . . . . . .(703) 860-6118**

Office of the Director (MS 101)
National Center
12201 Sunrise Valley Drive
Reston, VA 22092

Dallas L. Peck, Director . . . . . (703) 860-7411

Geologic Division (MS 911)
Robert M. Hamilton, Chief. . . . . .(703) 860-6531

Office of Energy and Marine Geology (MS 913)
Terry W. Offield, Chief . . . . . (703) 860-6431

**Minerals Management Service . . . . . .(703) 435-6410**

18th and C Streets, NW.
Washington, DC 20240

12203 Sunrise Valley Drive
Reston, VA 22091

William D. Bettenberg, Director . . . . . .(202) 343-3500
18th and C Streets, NW.
Room 4212, MS 610

Associate Director for Royalty Management
Robert Boldt. . . . . .(202) 343-3512
18th and C Streets, NW.
Room 4216, MS 610

Associate Director for Offshore
Minerals Management
John B. Rigg . . . . . .(202) 343-3530
18th and C Streets, NW.
Room 4223, MS 640

Office of Strategic and International Minerals
Reid Stone, Assistant Associate Director . . . (213) 548-2901
11 Golden Shore, Suite 260
Long Beach, CA 90802

Office of Offshore Information Services
Michele M. Tetley, Chief . . . . . .(202) 343-9314
18th and C Streets, NW.
Room 2070, MS 640

Outer Continental Shelf Information Program
Douglas Slitor, Acting Chief. . . (703) 285-2285
1951 Kidwell Drive
Suite 601
Vienna, VA 22180

Deputy Associate Director for Offshore Leasing
Carolita Kallaur . . . . . .(202) 343-3504
18th and C Streets, NW.
Room 4225, MS 641

DEPARTMENT OF THE INTERIOR—Continued

Offshore Environmental Assessment Division
Piet deWitt, Chief . . . . . .(202) 343-2097
Room 2042, MS 644

Branch of Environmental Evaluation
Richard F. Wildermann, Chief . . . . . .(202) 343-6264
Room 2507, MS 644

Branch of Environmental Studies
Don Aurand, Chief . . . . . .(202) 343-7744
Room 2526, MS 644

Branch of Environmental Operations
John T. Goll, Chief . . . . . .(703) 860-6461
12203 Sunrise Valley Drive, MS 644

Branch of Environmental Modeling
Robert P. La Belle, Chief . . . . . .(703) 860-6730
12203 Sunrise Valley Drive, MS 644

Offshore Leasing Management Division
Chris Oynes, Chief . . . . . .(202) 343-6906
18th and C Streets, NW.
Room 2523, MS 645

Branch of Leasing Development and
Coordination
Jan Thorman, Chief . . . . . .(202) 343-3116
Room 2522, MS 645

Branch of Program Development and
Planning
Paul Stang, Chief . . . . . .(202) 343-1072
Room 4520, MS 645

Branch of Sales Activities
Sandra E. Seim, Chief . . . . . .(202) 343-5121
Room 2515, MS 645

Offshore Resource Evaluation Division
Gary Lore, Chief . . . . . .(703) 860-7833
12203 Sunrise Valley Drive
MS 643

Branch of Economic Studies
Marshall Rose, Chief . . . . . .(703) 860-7538
Room 6A100, MS 643

Branch of Geologic and
Geophysical Studies
Michael Hunt, Chief . . . . . .(703) 860-7571
Room 6A104, MS 643

Branch of Resource Assessment
Paul Martin, Chief. . . . . .(703) 860-7567
Room 6A418, MS 643

Deputy Associate Director for Offshore Operations
Richard Krahl . . . . . .(703) 860-7515
12203 Sunrise Valley Drive
MS 642

Offshore Inspection and Enforcement Division
Marshall L. Courtois, Chief . . . . . .(703) 860-7867
Room 6A200, MS 647

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DEPARTMENT OF THE INTERIOR—Continued

Branch of Monitoring and Penalties
Billy J. Shoger, Chief . . . . . (703) 860-7506
Room 6A207, MS 647

Branch of Technology Assessment
and Research
John B. Gregory, Chief . . . . . (703) 860-7863
Room 6A122, MS 647

Offshore Rules and Operations Division
Price McDonald, Chief . . . . . (703) 860-7564
MS 646

Branch of Development and Production
Gerald D. Rhodes, Chief . . . . . (703) 860-7567
6A418, MS 646

Branch of Lease Exploration
Gerald R. Daniels, Chief . . . . . (703) 860-6823
Room 6A118, MS 646

Branch of Rules, Orders and Standards
David A. Schuenke, Chief . . . . . (703) 860-7916
Room 6A110, MS 646

Minerals Management Service: Regional Offices

Alaska OCS Region:
Minerals Management Service . . . . . (907) 261-4010
949 E. 36th Avenue
University Plaza Building
P.O. Box 101159
Anchorage, AK 99510

Alan D. Powers, Regional Director . . . . (907) 271-4030

Atlantic OCS Region:
Minerals Management Service
1951 Kidwell Drive
Suite 601
Vienna, VA 22180

Bruce Weetman, Regional Director. . . . . (703) 285-2165

Gulf of Mexico OCS Region:
Minerals Management Service
3301 N. Causeway Boulevard
P.O. Box 7944
Metairie, LA 70010

John L. Rankin, Regional Director . . . . (504) 837-4720

Pacific OCS Region:
Minerals Management Service
1340 W. Sixth Street
Los Angeles, CA 90017

William E. Grant, Regional Director (213) 894-2050

DEPARTMENT OF THE INTERIOR—Continued

**National Park Service**

Biological Resources Division
1100 L Street, NW.
MS 485
Washington, DC 20240

John C. Reed, Chief . . . . . (202) 343-8125

**Office of the Solicitor**

Division of Energy and Minerals
18th and C Streets, NW.
Room 6310, MS 43
Washington, DC 20240

Lawrence Jensen, Associate Solicitor . . . . . (202) 343-5757

**DEPARTMENT OF JUSTICE . . . . . (202) 633-2000**

10th and Pennsylvania Avenue, NW.
Washington, DC 20530

Edwin Meese III, Attorney General . . . . . (202) 633-2001

Antitrust Division
Energy Section
414 11th Street, NW.
Room 9317
Washington, DC 20530

Melanie S. Cutler, Chief . . . . . (202) 724-6410

Land and Natural Resources Division
General Litigation Section
10th and Constitution Avenue, NW.
Room 2133
Washington, DC 20530

Jose R. Allen, Chief . . . . . (202) 633-2704

**DEPARTMENT OF TRANSPORTATION . . . . . (202) 426-4000**

400 Seventh Street, SW.
Washington, DC 20590

Elizabeth Dole, Secretary . . . . . (202) 426-1111

Environmental Division (P-14)
400 Seventh Street, SW.
Room 9217
Washington, DC 20590

Eugene L. Lehr, Chief . . . . . (202) 426-4366

**U.S. Coast Guard . . . . . (202) 426-4000**

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DEPARTMENT OF TRANSPORTATION—Continued

2100 Second Street, SW.
Room 2212
Washington, DC 20593

Admiral James S. Gracey, Commandant . . . . (202) 426-2390

Office of Marine Environment and Systems
Room 1116B

Commodore John W. Kime, Chief . . . . . (202) 426-2007

Offshore Activities Branch
Room 1405

Commander K. V. Feeney, Chief. . . . . (202) 426-1455

U.S. Coast Guard District Offices

Eighth Coast Guard District . . . . . (504) 589-6298
Hale Boggs Federal Building
500 Camp Street
New Orleans, LA 70130

Materials Transportation Bureau

Office of Pipeline Safety Regulation
400 Seventh Street, SW.
Room 8409
Washington, DC 20590

Richard L. Beam, Associate Director . . . . . (202) 426-2392

Office of Pipeline Safety Regulation
Regional Offices

Southwest Region Pipeline Safety. . . . . (713) 750-1746
2320 Labranch
Houston, TX 77004

ENVIRONMENTAL PROTECTION AGENCY. . . . (202) 382-2090

Office of the Administrator
401 M Street, SW.
A-100
Washington, DC 20460

ENVIRONMENTAL PROTECTION AGENCY—Continued

Lee M. Thomas, Administrator. . . . . (202) 382-4700

Office of Federal Activities
Alan Hirsch, Director . . . . . (202) 382-5053
A-104

Environmental Protection Agency
Regional Administrators' Offices

Region VI . . . . . (214) 767-2600
InterFirst Two Building
1201 Elm Street
Dallas, TX 75270

FEDERAL ENERGY REGULATORY COMMISSION . . . . . (202) 357-5200

Office of Regulatory Analysis
825 N. Capitol Street, NE.
Room 9216
Washington, DC 20426

Charles E. Teclaw, Director. . . . . (202) 357-8256

Office of Pipeline and Producer Regulations
Room 7000

Kenneth A. Williams, Director . . . . . (202) 357-8500

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION . . . . . (202) 453-1000

Management Support Division
Code LB
400 Maryland Avenue, SW.
Washington, DC 20546

Nathaniel B. Cohen, Director. . . . . (202) 453-8335

NATIONAL ARCHIVES . . . . . (202) 523-5240

Office of the Federal Register
National Archives and Records Service
Washington, DC 20408

Office of Finding Aids (reference inquiries) . . . . (202) 523-5227

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# Appendix B. Listing of Gulf of Mexico Region State Agencies and Their OCS-Related Functions

This appendix describes State and local participation in the Federal offshore leasing process, as well as the autonomous responsibilities of States for offshore-related activities. The specific Gulf of Mexico State agencies that are or could be involved in offshore-related activities also are presented. These agencies, their mailing addresses, telephone numbers, and the names of people to contact are listed alphabetically in tables 8 through 12.

To prepare a full mailing address, use the name of the agency or department, the particular office designation you wish, and any other pertinent information such as mail-stop code or box number. In instances where the full address is not given, use the first complete address immediately above the office in which you are interested.

## STATE AGENCY PARTICIPATION IN THE FEDERAL LEASING PROCESS

The Federal Government, represented by DOI, coordinates and consults with affected States and, through States, with local governments during the Federal offshore leasing process.

Federal-State interaction begins with the review of the proposed OCS oil-and-gas leasing schedule. Several steps throughout the leasing process require the Federal Government to invite and consider suggestions from the Governors of the potentially affected States. A Governor of a State, usually through a designated agency or office, may invite potentially affected local governments and pertinent State agencies to comment on the action. This designated agency or office is usually responsible for coordinating State and local responses by distributing the documents or information to the pertinent State agencies and local governments and submitting the responses to the Secretary of the Interior. The Secretary of the Interior may then incorporate the State's positions in making decisions on various lease sale options.

Tables 8 through 12 indicate the agencies in the Gulf of Mexico that are responsible for consistency determination review. These agencies usually distribute the plans and coordinate the responses (either of concurrence or objection) to the consistency determination.

The four Federal programs described in chapter 4 (geological and geophysical surveys and analyses, OCS Advisory Board, Regional Environmental and Socioeconomic Studies, and the Oil and Gas Information Program) also provide opportunities for State participation.

## AUTONOMOUS STATE RESPONSIBILITIES FOR OCS-RELATED ACTIVITIES

State governments issue permits for various offshore-related activities in State



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waters, including the planning and construction of nearshore and onshore oil and gas facilities such as pipelines, terminals, refineries, and ports. Planning for and construction of these facilities usually occur during development and production phases of the Federal offshore leasing process described in chapter 3. Permits issued by State agencies in the Gulf of Mexico also are listed in tables 8 through 12.

## STATE AGENCY LISTINGS

State agencies involved in the offshore leasing process are presented in tables 8 through 12. In these tables, the responsibilities of State agencies that are directly related to the Federal leasing process are indicated by a **NOTE.** Space has been left on the tables for other contacts and notes the reader may wish to record.

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## *TABLE 8.—ALABAMA: State responsibilities related to OCS oil and gas activities*

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES** | | |
| Administrative Building<br>64 N. Union Street<br>Montgomery, AL 36130-1901<br><br>John W. Hodnett<br>Commissioner<br>(205) 261-3486 | | |
| **State Lands Division**<br>Robert A. Macrory<br>Director<br>(205) 261-3484 | o Administers leases, easements, and sale of State lands for pipelines, dredging, etc. | |
| **DEPARTMENT OF ENVIRONMENTAL MANAGEMENT** | | |
| State Capitol<br>1751 Federal Drive<br>Montgomery, AL 36130<br><br>Joe B. Broadwater<br>Director<br>(205) 271-7700 | o Implements all technical aspects of Alabama's Coastal Zone Management Program - federally approved in 1979 (see also Department of Economic and Community Affairs)<br>o Designates coastal areas of particular concern<br>o Issues certificates of compliance or consistency for permits issued for the coastal zone by other agencies<br>o Reviews and comments on other agency applications for: energy facilities and construction operation plans and certification; construction on beaches, dunes, and in the 100-year floodplain area<br><br>NOTE: The following responsibilities are directly related to the Federal leasing process:<br><br>o Comments on the following leasing steps:<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production<br><br>o Reviews consistency determination for the following leasing steps:<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production<br><br>o Reviews nonproprietary information in geological and geophysical surveys and analyses (ongoing) | |
| **Air Division**<br>Richard E. Grusnick<br>Director<br>(205) 271-7861 | o Issues permits: air quality | |
| **Land Division**<br>Dan Cooper<br>Director<br>(205) 271-7700 | o Issues permits: hazardous and solid wastes handling/disposal | |
| **Water Division**<br>Charles Horn (Acting)<br>Director<br>(205) 271-7700 | o Issues permits: NPDES; dredge and fill; wastewater facilities<br>o Issues certificates: water quality | |
| **GEOLOGICAL SURVEY/STATE OIL AND GAS BOARD** | | |
| P.O. Drawer O<br>University, AL 35486<br><br>Dr. Ernest Mancini<br>State Geologist<br>(205) 349-2852 | NOTE: The following responsibilities are directly related to the Federal leasing process:<br><br>o OCS Policy Committee member<br>o Regional Technical Working Group member<br><br>o Comments on and distributes information on MMS's OCS Oil and Gas Information Program<br>o Reviews proprietary data during geological and geophysical analysis according to section 26(d)(2)(3)<br>o Reviews nonproprietary information in geological and geophysical surveys and analyses<br>o Comments on geology reports<br>o Comments, coordinates, and distributes responses on the following leasing steps:<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>5. Proposed notice of sale | |

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***TABLE 8.—ALABAMA: State responsibilities related to OCS oil and gas activities—Continued***

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| | o Comments on the following leasing steps:<br>3. Draft environmental impact statement<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **GOVERNOR'S OFFICE** | | |
| State Capitol<br>Montgomery, AL 36130<br><br>George C. Wallace<br>Governor<br>(205) 261-3592 | | |
| **HIGHWAY DEPARTMENT** | | |
| 1409 Colosseum Boulevard<br>Montgomery, AL 36130<br><br>Ray D. Bass<br>Director<br>(205) 261-6311 | o Advises on transportation planning and facilities | |
| **HISTORICAL COMMISSION** | | |
| 725 Monroe Street<br>Montgomery, AL 36130<br><br>F. Lawrence Oaks<br>Executive Director<br>(205) 261-3184 | o Designates historical and archeological sites | |
| **DEPARTMENT OF ECONOMIC AND COMMUNITY AFFAIRS** | | |
| 3465 Norman Bridge Road<br>P.O. Box 2939<br>Montgomery, AL 36105-0939<br><br>William Rushton<br>Director<br>(205) 284-8700 | o Administers Alabama Coastal Zone Management Program (see also Dept. of Environmental Management) | |
| State Planning Division<br>Ned Butler<br>Chief<br>(205) 284-8706 | o Participates in the Coastal Energy Impact Program | |
| Clearinghouse<br>Donna Snowden<br>Coordinator<br>(205) 284-8905 | NOTE: The following responsibilities are directly related to the Federal leasing process:<br><br>o Coordinates and distributes responses on the following leasing steps:<br>3. Draft environmental impact statement<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |

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***TABLE 8.—ALABAMA: State responsibilities related to OCS oil and gas activities—Continued***

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **PUBLIC SERVICE COMMISSION**<br>P.O. Box 991<br>Montgomery, AL 36102<br>Jim Sullivan<br>President<br>(205) 261-5207 | | |
| **Gas Pipeline Safety Division**<br>Larry E. Waldrop<br>Administrator<br>(205) 261-5778 | o Administers safety standards for natural gas pipelines | |
| **STATE DOCKS DEPARTMENT**<br>P.O. Box 1588<br>Mobile, AL 36633<br>Robert M. Hope<br>Director<br>(205) 690-6112 | o Issues permits: construction of dock structures in navigable State waters | |

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## *TABLE 9.—FLORIDA: State responsibilities related to OCS oil and gas activities*

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **DEPARTMENT OF COMMUNITY AFFAIRS**<br>Howard Building<br>2571 Executive Center Circle, East<br>Tallahassee, FL 32301<br><br>Dr. John DeGrove<br>Secretary<br>(904) 488-8466 | | |
| **Division of Resource Planning and Management**<br>James F. Murley<br>Director<br>(904) 488-2356 | | |
| **Bureau of Land and and Water Management**<br>Diana Sawaya-Crane<br>Chief<br>(904) 488-4925 | o Administer regional impacts program for ports, oil-and-gas storage, industrial parks, electric transmission lines | |
| **Bureau of State Land Planning**<br>James Quinn<br>Chief<br>(904) 488-9210 | o Designate areas of critical concern<br>o Coordinate State/local OCS program<br>o Administer Coastal Energy Report Program | |
| **DEPARTMENT OF ENVIRONMENTAL REGULATION**<br>Twin Towers Office Building<br>2600 Blair Stone Road<br>Tallahassee, FL 32301<br><br>Victoria Tschinkel<br>Secretary<br>(904) 488-4805 | | |
| **Office of Coastal Management**<br>David Worley<br>Administrator<br>(904) 488-4805 | o Administer Coastal Zone Management Program - approved September 1981<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br><br>o Consistency certification and concurrence on the following steps in the offshore leasing process (step numbers correspond to chapter 3):<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production<br>o Comment on the following steps (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **Division of Environmental Permitting**<br>Steve Fox<br>Director<br>(904) 488-0130 | o Issue permits: industrial siting certificate; air quality; NPDES; water quality certificate; wastewater facilities; water well drilling; water impoundments; dredge and fill; hazardous waste handling and disposal; solid waste handling and disposal | |
| **Division of Environmental Programs**<br>Howard L. Rhodes<br>Director<br>(904) 487-1855 | **NOTE:** The following responsibilities are directly related to the Federal leasing process:<br><br>o Comment on the following steps (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |

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## *TABLE 9.—FLORIDA: State responsibilities related to OCS oil and gas activities—Continued*

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **DEPARTMENT OF NATURAL RESOURCES**<br>3900 Commonwealth Boulevard<br>Tallahassee, FL 32303<br>Dr. Elton J. Gissendanner<br>Executive Director<br>(904) 488-1554 | | |
| **Division of Marine Resources**<br>Edwin A. Joyce<br>Director<br>(904) 488-6058 | | |
| **Bureau of Marine Research**<br>100 Eighth Avenue, SE<br>St. Petersburg, FL 33701<br>Karen Steidinger<br>Chief<br>(813) 896-8626 | NOTE: The following responsibilities are directly related to the Federal leasing process:<br>o Comment on the following steps in the OCS leasing process (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production<br>o Review and comment on consistency determination for the following steps:<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **Division of Beaches and Shores**<br>3900 Commonwealth Boulevard<br>Deborah Flack<br>Director<br>(904) 488-3180 | o Issue permits: shore protection structure<br>o Enforce coastal construction setback line | |
| **Division of Resource Management**<br>Charles W. Hendry, Jr.<br>Director<br>(904) 488-3177 | | |
| **Bureau of Geology**<br>Gunter Building<br>903 W. Tennessee Street<br>Tallahassee, FL 32304<br>Steve Windham<br>Chief<br>(904) 488-4191 | o Issue permits: oil and gas production facilities (e.g., pipelines, terminals) | |
| **Division of State Lands**<br>3900 Commonwealth Boulevard<br>James McFarland<br>Director<br>(904) 488-2725 | o Issue permits: activities in State-owned submerged lands | |
| **DEPARTMENT OF STATE**<br>The Capitol<br>Tallahassee, FL 32301<br>George Firestone<br>Secretary<br>(904) 488-3680 | | |
| **Division of Archives, History and Records Management**<br>500 S. Bronough Street<br>R.A. Gray Building, Suite 305<br>Tallahassee, FL 32301<br>Randall Kelley<br>Director<br>(904) 488-1480 | | |

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## TABLE 9.—FLORIDA: State responsibilities related to OCS oil and gas activities—Continued

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **Bureau of Historic Preservation**<br>George Percy<br>Chief<br>(904) 487-2333 | o Designate archeological and historic sites | |
| **Bureau of Archeological Research**<br>James Miller<br>Chief<br>(904) 487-2333 | o Issue permits: archeological and historic site disturbances | |
| **GOVERNOR'S OFFICE** | | |
| The Capitol<br>Tallahassee, FL 32301 | | |
| Bob Graham<br>Governor<br>(904) 488-2272 | | |
| **Office of Planning and Budgeting**<br>Room 415, Carlton Building<br>Tallahassee, FL 32301-8047<br>John T. Herndon<br>Director<br>(904) 488-7810 | | |
| **Natural Resources Policy Unit**<br>Room 404, Carlton Building<br>Ken Woodburn<br>Policy Coordinator<br>(904) 488-5551 | NOTE: The following responsibilities are directly related to the Federal leasing process:<br>o Develop State policy and prepare State responses on Federal OCS oil and gas leasing and drilling initiatives<br>o Comment and distribute information on MMS's OCS Oil and Gas Information Program (ongoing)<br>o Comment, distribute, and coordinate response on geology reports<br>o Comment, distribute, and coordinate response on proposed OCS oil-and-gas leasing schedule<br>o Comment, distribute, and coordinate response on the following steps in the offshore leasing process (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production<br>o Chair Interagency OCS Advisory Committee, which comments on the following steps in the offshore leasing process (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| Deborah L. Tucker<br>(904) 488-5551 | o Gulf of Mexico Regional Technical Working Group representative | |
| **STATE UNIVERSITY SYSTEM OF FLORIDA** | | |
| Collins Building<br>107 W. Gaines Street<br>Tallahassee, FL 32301 | | |
| Barbara W. Newell<br>Chancellor<br>(904) 488-4234 | | |
| **Florida Institute of Oceanography**<br>830 First Street, South<br>St. Petersburg, FL 33701<br>William W. Behrens<br>Director<br>(813) 893-9100 | | |

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***TABLE 9.—FLORIDA: State responsibilities related to OCS oil and gas activities—Continued***

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| Murice Rinkel<br>Assistant Director<br>State OCS Representative<br>(813) 893-9100 | NOTE: The following responsibilities are directly related to the Federal leasing process:<br><br>o OCS Policy Committee member<br>o Nominated to South Atlantic Regional Technical Working Group<br>o Comment on nonproprietary data during geological and geophysical analysis<br>o Comment on geology reports<br>o Comment on the following steps in the offshore leasing process (step numbers correspond to chapter 3)<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |

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## *TABLE 10.—LOUISIANA: State responsibilities related to OCS oil and gas activities*

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **DEPARTMENT OF CULTURE, RECREATION, AND TOURISM** | | |
| P.O. Box 44361<br>Baton Rouge, LA 70804<br><br>Noelle LeBlanc<br>Secretary<br>(504) 925-3800 | | |
| **Division of Archeology**<br>P.O. Box 44247<br>Dr. Kathleen Byrd<br>State Archeologist<br>(504) 922-0368 | o Designates archeological sites | |
| **Division of Historic Preservation**<br>P.O. Box 44247<br>Ann Jones<br>Director<br>(504) 922-0358 | o Designates historical sites | |
| **DEPARTMENT OF ENVIRONMENTAL QUALITY** | | |
| P.O. Box 44066<br>Baton Rouge, LA 70804<br><br>Patricia L. Norton<br>Secretary | | |
| **Air Quality Division**<br>Gus Von Bodungen<br>Administrator<br>(504) 342-1206 | o Issues permits: air quality | |
| **Division of Hazardous Waste**<br>Glenn Miller<br>Administrator<br>(504) 342-1227 | o Issues permits: hazardous waste handling/disposal | |
| **Division of Solid Waste**<br>Gerald D. Healy<br>Administrator<br>(504) 342-1216 | o Issues permits: solid waste handling/disposal | |
| **Water Resources Division**<br>J. Dale Givens<br>Assistant Secretary for Water<br>(504) 342-6363 | o Issues permits: industrial pollution discharge; wastewater facilities<br>o Issues certificates: water quality | |
| **DEPARTMENT OF NATURAL RESOURCES** | | |
| P.O. Box 44396<br>625 N. Fourth Street<br>Baton Rouge, LA 70804<br><br>B. Jim Porter<br>Secretary<br>(504) 342-4500 | NOTE: The following responsibilities are directly related to the Federal leasing process:<br><br>o Comments, coordinates, and distributes responses on proposed OCS oil-and-gas leasing schedule, geology reports<br>o Comments, coordinates, and distributes responses on the following leasing steps (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production<br>o Comments on the following leasing steps:<br>3. Draft environmental impact statement | |
| **Coastal Management Division**<br>P.O. Box 44124<br>Dr. Charles G. Groat<br>Director (Acting)<br>(504) 342-7591 | o Participates in the Coastal Energy Impact Program<br>o Administers Louisiana's Coastal Zone Management Program - federally approved in 1980<br>o Designates coastal areas of particular concern<br>o Issues permits: coastal use; dredge and fill | |

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## *TABLE 10.—LOUISIANA: State responsibilities related to OCS oil and gas activities—Continued*

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| | **NOTE:** The following responsibilities are directly related to the Federal leasing process: | |
| | o Reviews consistency determination for and comments on the following leasing steps:<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **Division of State Lands**<br>P.O. Box 44124<br>Steve Zerangue<br>Administrator<br>(504) 342-4577 | o Provides technical assistance to office of Mineral Resources for leases, easements on State water bottoms | |
| (vacant)<br>Chief Engineer for Leasing<br>(504) 342-4583 | **NOTE:** The following responsibility is directly related to the Federal leasing process:<br>o Secretary's assistant for Federal OCS leasing process (Departmental comments and coordination activities)<br>o OCS Policy Committee member | |
| **Geological Survey**<br>Box G., University Station<br>Baton Rouge, LA 70893<br>Dr. Charles G. Groat<br>State Geologist<br>(504) 342-6754 | o Conducts geological and geophysical surveys in State waters<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br>o Regional Technical Working Group member<br>o Alternate OCS Policy Committee member<br>o Comments on nonproprietary information in geological and geophysical surveys and analyses<br>o Comments on and distributes information on MMS's OCS Oil and Gas Information Program<br>o Assists Secretary with preparation of comments on OCS leasing steps | |
| **Office of Conservation**<br>P.O. Box 44275<br>Baton Rouge, LA 70804<br>Herbert Thompson<br>Commissioner<br>(504) 342-5500 | o Issues permits: oil and gas production facilities (e.g., pipelines, terminals) | |
| **Office of Mineral Resources**<br>P.O. Box 44396<br>Robert Jones<br>Chief Geologist<br>(504) 342-4633 | o Regulates leasing of State lands and water bottoms for mineral development<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br>o Comments on proprietary information in geological and geophysical surveys and analyses, according to OCSLA section 26(d)(2)(e) | |
| **DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT**<br><br>P.O. Box 44245<br>Capitol Station<br>Baton Rouge, LA 70804<br><br>Robert G. Graves<br>Secretary<br>(504) 342-7501 | | |
| **Office of Public Works**<br>Marty Chabert<br>Assistant Secretary,<br>Department of Transportation and Development<br>(504) 342-7535 | o Issues permits: water wells | |
| **Offshore Terminal Authority**<br>N.R. de Gravelles<br>Executive Director<br>(504) 342-7896 | o Regulates offshore terminals | |

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***TABLE 10.—LOUISIANA: State responsibilities related to OCS oil and gas activities—Continued***

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **DEPARTMENT OF URBAN AND COMMUNITY AFFAIRS**<br>P.O. Box 94455<br>5790 Florida Boulevard<br>Baton Rouge, LA 70804<br><br>Dorothy M. Taylor<br>Secretary<br>(504) 925-3702 | | |
| **Office of the State Clearinghouse**<br>Michael J. Jefferson<br>Assistant Secretary<br>(504) 925-3722 | **NOTE:** The following responsibilities are directly related to the Federal leasing process:<br>o Coordinates and distributes responses on the following leasing steps:<br>3. Draft environmental impact statement<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **DEPARTMENT OF WILDLIFE AND FISHERIES**<br>P.O. Box 15570<br>Baton Rouge, LA 70895<br><br>J. Burton Angelle<br>Secretary<br>(504) 925-3625 | | |
| **Ecological Studies Section**<br>M.B. Watson<br>Coordinator<br>(504) 342-9274 | o Issues permits: geological and geophysical surveys statewide (with Department of Natural Resources); oyster bed disturbances; natural and scenic river disturbances<br>o Administers severance tax for fill material | |
| **GOVERNOR'S OFFICE**<br>P.O. Box 44004<br>State Capitol, 4th Floor<br>Baton Rouge, LA 70804<br><br>Edwin W. Edwards<br>Governor<br>(504) 342-7015 | | |

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## *TABLE 11.—MISSISSIPPI: State responsibilities related to OCS oil and gas activities*

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **DEPARTMENT OF ARCHIVES AND HISTORY** | | |
| P.O. Box 571<br>Jackson, MS 39205<br><br>Elbert R. Hilliard<br>Director<br>(601) 359-1424 | | |
| **Division of Historic Preservation**<br>Ken Pipool<br>Director<br>(601) 359-7326 | o Designates archeological and historical sites | |
| **DEPARTMENT OF NATURAL RESOURCES** | | |
| P.O. Box 20305<br>Jackson, MS 39209<br><br>Charlie L. Blalock<br>Executive Director<br>(601) 961-5000 | | |
| **Bureau of Geology**<br>P.O. Box 5348<br>Jackson, MS 39216<br>Alvin R. Bicker, Jr.<br>Director and State Geologist<br>(601) 354-6228 | o Regulates leasing in State waters<br><br>NOTE: The following responsibility is directly related to the Federal leasing process:<br>o Comments on nonproprietary information in geological and geophysical surveys and analyses (policy aspects and any activity which includes State Waters); (with Department of Wildlife Conservation, Bureau of Marine Resources) | |
| **Bureau of Land and Water Resources**<br>P.O. Box 10631<br><br>Jackson, MS 39209<br>Charles T. Branch<br>Director<br>(601) 961-5202 | o Regulates activities to withdraw surface or groundwater | |
| **Bureau of Pollution Control**<br>P.O. Box 10385<br>Jackson, MS 39209<br>Charles H. Chisolm<br>Director<br>(601) 961-5100 | o Issues permits: air quality; NPDES<br>o Issues certificates: water quality | |
| **Division of Solid Waste Management**<br>P.O. Box 10385<br>Jackson, MS 39209<br>Jack McMillan<br>Director<br>(601) 961-5062 | o Issues permits: solid and hazardous wastes handling/disposal | |
| **DEPARTMENT OF WILDLIFE CONSERVATION** | | |
| P.O. Box 451<br>Jackson, MS 39205<br><br>Lon Strong<br>Executive Director<br>(601) 961-5316 | | |
| **Bureau of Marine Resources**<br>P.O. Drawer 959<br>Long Beach, MS 39560<br>Dr. Richard L. Leard<br>Director | o Administers Mississippi's Coastal Zone Management Program - federally approved in 1980<br>o Participates in the OCS Minerals Resource Program<br>o Participates in the Coastal Energy Impact Program<br><br>NOTE: The following responsibilities are directly related to the Federal leasing process:<br>o Regional Technical Working Group member<br>o Comments on environmental and technical aspects with Department of Natural Resources, Bureau of Geology<br>o Comments on and distributes information on MMS's OCS Oil and Gas Information Program<br>o Comments on geology reports | |

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## TABLE 11.—MISSISSIPPI: State responsibilities related to OCS oil and gas activities—Continued

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **Scientific/Statistical Division**<br>Dr. Cornell Ladner<br>Chief<br>OCS Program Manager<br>(601) 364-4602 | o Alternate Regional Technical Working Group member<br>o Comments, coordinates, and distributes response on proposed OCS oil-and-gas leasing schedule<br>o Comments and coordinates with the Governor's Planning and Policy Office on the development and distribution of responses on the following leasing steps (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production<br>o Reviews consistency determination for the following leasing steps:<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **Wetlands Division**<br>Joe Gill<br>Chief<br>(601) 364-4602 | o Issues permits: certain activities in public wetlands; dredge and fill; bulkheads; (does not issue permits for oil and gas drilling and production facilities) | |
| **Coastal Programs Division**<br>Jerry Mitchell<br>Chief<br>(601) 364-4602 | o Designates waterfront industrial sites, reviews siting applications, and develops specifications for special management areas<br>o Issues consistency concurrences for the following leasing steps:<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **GOVERNOR'S OFFICE**<br><br>P.O. Box 139<br>Jackson, MS 39205<br><br>William A. Allain<br>Governor<br>(601) 359-3150 | | |
| Charles Deaton<br>Assistant to the Governor for Natural Resources, Transportation, and Economic Development<br>(601) 359-3100 | NOTE: The following responsibility is directly related to the Federal leasing process:<br>o OCS Policy Committee member | |
| Federal-State Programs, Planning and Policy<br>Ann Cook, Coordinator<br>(601) 359-3150 | NOTE: The following responsibilities are directly related to the Federal leasing process:<br>o Coordinates and distributes responses on the following leasing steps (step numbers correspond to chapter 3):<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>8. Environmental analysis for exploration<br>10. Environmental analysis for development and production | |
| **PUBLIC SERVICE COMMISSION**<br><br>P.O. Box 1174<br>Jackson, MS 39205<br><br>D.W. Snyder<br>Chairman<br>(601) 961-5400 | o Issues certificates: intrastate pipeline activities | |
| **SECRETARY OF STATE**<br><br>P.O. Box 136<br>Jackson, MS 39205<br><br>Dick Molpus<br>(601) 359-1350 | | |
| Public Lands Division<br>Constance Slaughter-Harvey<br>Director<br>(601) 359-1350 | o Regulates leasing of State-owned lands for pipelines and other facilities | |

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***TABLE 11.—MISSISSIPPI: State responsibilities related to OCS oil and gas activities—Continued***

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **STATE OIL AND GAS BOARD** | | |
| P.O. Box 1332<br>Jackson, MS 39215-1332<br><br>Dr. A. Richard Henderson<br>Supervisor<br>(601) 359-3736 | o Issues permits for oil-and-gas production within the State and regulates associated activities | |

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## *TABLE 12.—TEXAS: State responsibilities related to OCS oil and gas activities*

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| **AIR CONTROL BOARD** | | |
| 6330 Highway 290 East<br>Austin, TX 78723<br><br>Bill Stewart, P.E.<br>Executive Director<br>(512) 451-5711 | o Issues permits: air quality | |
| **DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION** | | |
| 11th and Brazos Streets<br>Austin, TX 78701<br><br>Mark G. Goode<br>Director<br>(512) 475-3525 | o Advises on transportation planning and facilities | |
| **DEPARTMENT OF WATER RESOURCES** | | |
| P.O. Box 13087<br>Capitol Station<br>Austin, TX 78711<br><br>Charles E. Nemir<br>Executive Director<br>(512) 475-3187 | o Administers regulations for oilspill prevention and cleanup<br>o Issues permits: waste disposal wells; NPDES; water levee construction; water well drilling; water use, storage, diversion; solid and hazardous wastes handling/disposal<br>o Issues certificates: water quality<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br>o Comments on the following steps (step numbers correspond to chapter 3):<br>1. Call for information<br>3. Draft environmental impact statement | |
| **GENERAL LAND OFFICE** | | |
| Stephen F. Austin Building, Ste. 835<br>1700 N. Congress<br>Austin, TX 78701<br><br>Garry Mauro<br>Commissioner<br>(512) 475-2071 | o Reviews applications, if impacting on State lands, for harbor and port facilities; industrial facilities; structures necessary for drilling site access (i.e., channels, canals, roads, disposal sites); access roads for oil and gas projects; dredge and fill; water impoundments.<br>o Identifies "critical" dune areas<br>o Issues permits for geological/geophysical surveys (state lands/waters)<br>o Issues leases for State lands<br>o Regulates easements for oil- and gas-related facilities<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br><br>o Monitors (with Railroad Commission) operations and construction, in State water up to the Federal water junction, for the following leasing step (step number corresponds to chapter 3):<br>12. Pipelines<br>o Comments on the following step (step number corresponds to chapter 3):<br>1. Call for information and nominations and notice of intent to prep..re an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale | |
| **GOVERNOR'S OFFICE** | | |
| P.O. Box 12428<br>Capitol Station<br>Austin, TX 78711<br><br>Mark White<br>Governor<br>(512) 475-4101 | | |
| **Budget and Planning Office**<br>P.O. Box 13561<br>Bill Hamilton<br>Director<br>(512) 475-2427 | **NOTE:** The following responsibilities are directly related to the Federal leasing process:<br><br>o Comments, coordinates, and distributes responses on proposed OCS oil-and-gas lease schedule | |

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## TABLE 12.—TEXAS: State responsibilities related to OCS oil and gas activities—Continued

| STATE AGENCY | RESPONSIBILITIES | OTHER CONTACTS AND NOTES |
|---|---|---|
| | o Comments, coordinates, and distributes responses on the following leasing steps:<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement<br>5. Proposed notice of sale<br>o Comments on nonproprietary information in geological and geophysical surveys and analyses<br>o Comments on and distributes information on MMS's OCS Oil and Gas Information Program | |
| Intergovernmental Division<br>Darla Parker<br>Review Coordinator<br>(512) 475-6156 | | |
| **HISTORICAL COMMISSION** | | |
| P.O. Box 12276<br>Austin, TX 78711<br><br>Curtis Tunnell<br>Executive Director<br>(512) 475-3092 | o Designates archeological and historical sites<br>o Issues permits: archeological and historical site disturbance | |
| **Parks and Wildlife Department**<br>4200 Smith School Road<br>Austin, TX 78744<br><br>Charles D. Travis<br>Director<br>(512) 479-4802 | o Manages parks and wildlife refuges; responsible for coastal wildlife concerns<br>o Grants easements through state parks (with General Land Office)<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br>o Comments on the following leasing steps (step numbers correspond to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement | |
| **RAILROAD COMMISSION** | | |
| P.O. Drawer 12967<br>Capitol Station<br>Austin, TX 78711<br><br>Betty Temple<br>Chairman<br>(512) 463-1100 | o Issues permits: pipelines; liquefied petroleum gas storage<br>o Regulates onshore disposal of drilling fluids (used by offshore rigs)<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br><br>o Monitors (with General Land Office) operations and construction, in State water up to the Federal water junction, for the following leasing step:<br>12. Pipelines | |
| **TEXAS COASTAL AND MARINE COUNCIL** | | |
| Box 13407<br>Capitol Station<br>Austin, TX 78711-3407<br><br>Charles L. Branton<br>Executive Director<br>(512) 475-4578 | **NOTE:** The following responsibilities are directly related to the Federal leasing process:<br>o Comments on the following leasing step (step number corresponds to chapter 3):<br>3. Draft environmental impact statement | |
| **UNIVERSITY OF TEXAS** | | |
| **Bureau of Economic Geology**<br>University Station, Box X<br>Austin, TX 78713-7508<br>Dr. William L. Fisher<br>Director<br>(512) 471-1534<br><br>E.G. Wermund<br>Associate Director<br>(512) 471-1534 | **NOTE:** The following responsibility is directly related to the Federal leasing process:<br><br>o OCS Policy Committee member<br><br>**NOTE:** The following responsibilities are directly related to the Federal leasing process:<br><br>o Regional Technical Working Group member<br>o Reviews geology reports<br>o Comments on the following leasing step (step number corresponds to chapter 3):<br>1. Call for information and nominations and notice of intent to prepare an EIS<br>3. Draft environmental impact statement | |

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# Appendix C. Regional Federal Depository Libraries

Under provisions of title 44 of the United States Code, certain libraries are designated depositories for Federal Government publications. Through them, Federal Government documents are made available to residents of every State, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands. Distribution to the libraries is made by the Office of the Superintendent of Documents. A list of the libraries that have received lease sale EISs from the MMS Gulf of Mexico Regional Office is published in the **Federal Register** in the notice of availability for EISs. In addition, the following libraries may have received lease sale EISs for the Gulf of Mexico area or can be contacted for assistance in obtaining the documents for review.

**Alabama**

Mobile:

Mobile Public Library
Governmental Information Division
546 Davis Avenue
Mobile, AL 36603
(205) 438-7092

University of South Alabama Library
Government Documents Department
Mobile, AL 36688
(205) 460-7024

Montgomery:

Auburn University at Montgomery
Library
**Regional Depository**
Documents Department
Montgomery, AL 36193
(205) 279-9110, ext. 253

University:

University of Alabama Library
**Regional Depository**
Reference Department/Documents
Box S
University, AL 35486
(205) 348-7369



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**Florida**

Gainesville:

University of Florida Libraries
**Regional Depository**
Documents Department
Library West
Gainesville, FL 32611
(904) 392-0367

Tampa:

Tampa-Hillsborough County
Public Library
Documents Department
900 N. Ashley Street
Tampa, FL 33602
(813) 223-8969

University of Tampa
Merl Kelce Library
401 W. Kennedy Boulevard
Tampa, FL 33606
(813) 253-8861

**Louisiana**

Baton Rouge:

Louisiana State University Library
Middleton Library
**Regional Depository**
Government Documents Department
Baton Rouge, LA 70803
(504) 388-2570

New Orleans:

New Orleans Public Library
Business and Science Division
219 Loyola Avenue
New Orleans, LA 70140
(504) 524-7382, ext.35

**Mississippi**

Hattiesburg:

University of Southern Mississippi
Joseph A. Cook Memorial Library
Southern Station Box 5053
Hattiesburg, MS 34901
(601) 266-4252

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**Mississippi—Continued**

University:

University of Mississippi
J.D. Williams Library
**Regional Depository**
Documents Department
University, MS 38677
(601) 232-5857

**Texas**

Austin:

Texas State University
**Regional Depository**
Public Services Department
P.O. Box 12927
Capitol Station
Austin, TX 78753
(512) 471-2996

Galveston:

Rosenberg Library
2310 Sealy Avenue
Galveston, TX 77550
(713) 763-8854, ext. 29

Houston:

Houston Public Library
Government Documents Section
500 McKinney Avenue
Houston, TX 77002
(713) 224-5441, ext. 298

Kingsville:

Texas Arts and Industries University
Jernigan Library
Documents Department
Kingsville, TX 78363
(512) 595-3916

Lubbock:

Texas Tech University Library
**Regional Depository**
Documents Department
Lubbock, TX 79409
(806) 742-2268

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# Appendix D. Additional OCS-Related Information

## OCS ORDERS

Outer Continental Shelf Orders are issued by MMS for each region (Gulf of Mexico, Pacific, Alaska, and Atlantic). These orders govern oil and gas operations and specify procedures and practices that must be followed during exploration, development, and production activities. Gulf of Mexico OCS Orders were most recently published in January 1980, with revisions issued in August 1980, July 1982, and January 1984. Copies of the Gulf of Mexico OCS Orders are available from the Regional Director, Minerals Management Service, Gulf of Mexico Region, P. O. Box 7944, 3301 N. Causeway Boulevard, Metairie, LA 70010.

Fourteen OCS Orders have been issued for leases in the Gulf of Mexico OCS Region. The Gulf of Mexico OCS Orders are as follows:

- Order No. 1 - Identification of wells, platforms, structures, mobile drilling units, and subsea objects. (For information on revision of paragraph 5 of OCS Order No. 1, see 49 FR 1897-1900, January 16, 1984.)
- Order No. 2 - Drilling operations: includes specifications for plans and applications; drilling from fixed platforms and mobile drilling units; well casing and cementing; directional surveys; blowout-preventer equipment; mud program; supervision, surveillance, and training; hydrogen sulfide; critical operations and curtailment plans; field drilling rules; and departures.
- Order No. 3 - Plugging and abandonment of wells.
- Order No. 4 - Determination of well producibility.
- Order No. 5 - Production safety systems: includes pollution-control requirements. (For information on the latest editions of quality assurance standards in paragraph 2 of OCS Order No. 5, see 47 FR 32489, July 27, 1982.)
- Order No. 6 - Procedure for completion of oil and gas wells.
- Order No. 7 - Pollution prevention and control.
- Order No. 8 - Platform and structure design and installation.
- Order No. 9 - Approval procedure for oil and gas pipelines.
- Order No. 10 - Sulfur drilling procedures.
- Order No. 11 - Oil and gas production rates, prevention of waste, and protection of correlative rights.



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- Order No. 12 - Public inspection of records.
- Order No. 13 - Production measurement and commingling.
- Order No. 14 - Approval of suspensions of production.

## OCS STATISTICAL SUMMARY

The OCS Statistical Summary was previously published as a four-volume series by the Bureau of Land Management. The series covered the following periods: 1954-72, 1973-75, 1976-78, and 1979-81. However, this series is now out of print and is no longer being distributed. The Public Information Office at the address listed below now has the following revised series available at cost: 1954-60, 1961-65, 1966-68, 1969-72, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, and 1982. Each volume includes a brief summary of selected data on the various regions' lease sales or offerings held in the calendar year(s) covered by that particular volume. Information is presented by lease sale or offering and includes such data as sale date and type, bid type, and total number of tracts and acreage offered, bid upon, and leased. Monetary data include total bonus accepted and average per acre, total number of tracts receiving bids and total amount of all bids received, highest bid per acre, and total of first year rentals. Important dates and **Federal Register** notices pertinent to each sale or lease offering and some lease specifications also are given. The Statistical Summary also contains a bid recap, which lists all tracts receiving bids, the OCS lease numbers assigned to these tracts, the amount of each bid received, and participating companies with percentage of interest. High bids rejected because of insufficiency also are identified.

Copies of any volume of the OCS Statistical Summary are available from the Gulf of Mexico Regional Office, Minerals Management Service, P.O. Box 7944, 3301 N. Causeway Boulevard, Metairie, LA 70010. Individual copies of bid recaps for a particular lease sale are available at cost from the appropriate MMS regional office for a period of time following the lease sale.

## MINERALS MANAGEMENT SERVICE OCS STANDARDS AND OPERATING PROCEDURES

The MMS has issued two standards for oil and gas operations on offshore leases. These standards, which are compilations of specifications for certain offshore oil and gas activities and uniformly applicable to all Federal offshore regions, are incorporated into the OCS Orders. Standards issued are as follows:

- safety requirements for drilling operations in a hydrogen sulfide environment (MMSS-OCS-1, 1st ed., February 1976, as amended on March 17, 1977, and August 2, 1982);
- requirements for verifying the structural integrity of OCS platforms (October 1979);
- appendixes to requirements for verifying the structural integrity of OCS platforms (October 1979);
- commentary on requirements for verifying the structural integrity of OCS platforms (October 1979); and
- training and qualifications of personnel in well-control equipment and techniques for drilling on offshore locations (MMSS-OCS-T i, 2d ed., May 1982).

Operating procedures include

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- operating procedures for OCS Platform Verification Program (October 1979).

For more information on MMS standards or operating procedures, contact the MMS Gulf of Mexico Regional Office noted on the inside front cover of this Index.

## AVAILABILITY OF FEDERAL DOCUMENTS RELATING TO LEGAL DECISIONS AND ORDERS

Regulations concerning the availability to the public of DOI documents are contained in title 43, Code of Federal Regulations, part 2. Subpart A of 43 CFR 2 concerns the availability of opinions issued in the adjudication of cases and of administrative manuals. Copies of final decisions and orders issued in appeals from DOI decisions relating to the use and disposition of offshore lands and mineral resources are available for inspection and copying in DOI's Office of Hearings and Appeals. For further information, contact the Director's Office, Office of Hearings and Appeals, U.S. Department of the Interior, 4015 Wilson Boulevard, Arlington, VA 22203; telephone: (703) 235-3810.

Subpart B of 43 CFR 2 defines DOI procedures for Freedom of Information Act (5 U.S.C. 552) requests. The procedures in this subpart are not applicable to requests for records published in the **Federal Register** or made available under subpart A of 43 CFR 2.

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# Glossary

Definitions presented in the glossary describe terms as they have been used in the index series. The glossary is intended for general reference only: for detailed descriptions of technical or specialized terms, the reader should seek a reference in the field of particular interest.

Sources used in compiling this glossary were the OCSIP summary reports and indexes; the NERBC-RALI Factbook; Webster's Third New International Dictionary; the American Geological Institute's Glossary of Geology (2d ed.) and Dictionary of Geological Terms; and Langenkamp's Handbook of Oil Industry Terms and Phrases (2d ed.).

**Acidizing** - A technique for increasing the flow of oil from a well by pumping acid downhole and into the rock formation. Hydrochloric acid is pumped or forced under high pressure into a limestone formation to dissolve the limestone and enlarge the cavity.

**Block** - A numbered area on an OCS leasing map or official protraction diagram. Blocks are sections of OCS leasing maps and official protraction diagrams that are themselves sections of planning areas. Blocks vary in size, but typically cover 5,000 to 5,760 acres (approximately 9 square miles). Each block has a specific identifying number, area, and latitude and longitude coordinates that can be pinpointed on a leasing map or official protraction diagram (see also **Tract**).

**Continental margin** - Zone separating the emergent continents from the deep sea bottom; it comprises the continental shelf, the continental slope, and the continental rise.

**Continental Offshore Stratigraphic Test (COST) well** - A well drilled to gather information about the stratigraphic formation present, the general character of the rocks, their porosity, and their permeability.

**Continental rise** - The submarine surface beyond the base of the continental slope; a very gentle slope leading down to the abyssal plain.

**Continental shelf** - That part of the continental margin that is between the shoreline and the continental slope (or, when there is no noticeable continental slope, a depth of 650 feet). It is characterized by its very gentle slope of $0.1^{o}$.

**Continental slope** - That part of the continental margin that is between the continental shelf and the continental rise (or oceanic trench). It is characterized by its relatively steep slope of $3^{o}$ to $6^{o}$.

**Critical operations and curtailment plan** - A plan for possible offshore emergencies prepared and submitted by the oil/gas operator to the applicable District Supervisor. Gulf of Mexico OCS Order No. 2 specifies the requirements of this plan.



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**Deep Stratigraphic Test (DST) well** - An official regulatory term referring to a COST well (see **Continental Offshore Stratigraphic Test well**).

**Development** - Activities that take place following exploration for and discovery and delineation of minerals in commercially recoverable quantities (including but not limited to geophysical activity, drilling, platform construction, and operation of all directly related onshore support facilities) and that are for the purpose of ultimately producing the minerals discovered.

**Development and production plan** - A plan describing the specific work to be performed, including all development and production activities that the lessee(s) propose(s) to undertake during the time period covered by the plan and all actions to be undertaken up to and including the commencement of sustained production. The plan also includes descriptions of facilities and operations to be used, well locations, current geological and geophysical information, environmental safeguards, safety standards and features, time schedules, an oil-spill contingency plan, and other relevant information. Under 30 CFR 250.34-2, all lease operators are required to formulate and obtain approval of such plans by the Director of MMS before development and production activities may begin.

**Environmental analysis** - A broad category of environmental reviews or documents required under the National Environmental Policy Act of 1969 (NEPA). If an initial environmental analysis warrants further study, the investigation may proceed to a more formal environmental assessment and, from there, to an environmental impact statement (EIS) or a finding of no significant impact (FONSI). A categorical exclusion review (CER) exempts certain activities from more formal environmental review.

Categorical exclusion review - In OCS areas where a proposed activity has been declared to have no significant impact on the environment, a CER can be issued exempting that activity from further formalized NEPA review.

Environmental assessment - A concise public document required by NEPA for which a Federal agency is responsible that provides evidence and analysis for determining whether to prepare an environmental impact statement or a finding of no significant impact.

Environmental impact statement - A document required by NEPA or similar State law in relation to any action significantly affecting the environment.

Finding of no significant impact - When the results of an environmental assessment indicate that there will be no significant impact from the proposed activity, a FONSI is issued, and no EIS is required.

**Exploration** - The process of searching for minerals. Exploration activities include (1) geophysical surveys where magnetic, gravity, seismic, or other systems are used to detect or infer the geologic conditions conducive to the accumulation of such minerals, and (2) any drilling, except development drilling, whether or not within known producing areas. Exploration also includes the drilling of a well in which a discovery of oil or natural gas in paying quantities is made and the drilling of any additional well after such a discovery that is needed to delineate a reservoir and to enable the lessee to determine whether to proceed with development and production.

**Exploration plan** - A plan based on all available relevant information about a leased area that identifies, to the maximum extent possible, all the potential hydrocarbon accumulations and wells that the

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lessee(s) propose(s) to drill to evaluate the accumulations within the entire area of the lease(s) covered by the plan. An exploration plan includes an oil-spill contingency plan and a geohazards and shallow hazards assessment. Under 30 CFR 250.34-1, all lease operators are required to formulate and obtain approval of such plans by the Director of MMS before exploration activities may commence.

**Federal Register (FR)** - A daily publication (Monday through Friday) distributed by the Superintendent of Documents, U.S. Government Printing Office, that provides a uniform system for making available to the public regulations and legal notices issued by Federal agencies.

**Finding of no significant impact (FONSI)** - See **Environmental analysis.**

**Fracture treatment** - A stimulation procedure using fluids and propping agents in an attempt to create new fractures or enlarge existing ones within the formation. The resulting permeability increase may enhance flow rates.

**Geographic mile** - A nautical mile, which is an international unit equal to 6,076.412 feet, or 1,852 meters. It is used for sea and air navigation.

**Geologic hazard** - A naturally occurring or manmade geologic condition or phenomenon that presents a risk or is a potential danger to life and property. Examples include shallow faulting, slumping, shallow gas, landsliding, flooding, earthquakes, ground subsidence, coastal and beach erosion, and seawater intrusion.

**Geology report** - A document prepared by MMS regional offices that includes information on regional geology, petroleum geology, environmental geology, and geohazards.

**Geophysical** - Of or relating to the physics of the Earth, especially the measurement and interpretation of geophysical properties of the formations in an area.

**Geophysical survey** - The exploration of an area in which geophysical properties and relationships unique to the area are measured by one or more geophysical methods.

**Hydrocarbon** - Any of a large class of organic compounds containing primarily carbon and hydrogen, comprising paraffins, olefins, members of the acetylene series, alicyclic hydrocarbons, and aromatic hydrocarbons; occurring in petroleum, natural gas, coal, and bitumens.

**Information area** - The geographical area covered by the call for information and nominations of an offshore oil-and-gas lease sale.

**Lease** - A contract authorizing exploration for and development and production of minerals; the land covered by such a contract.

**Lease sale** - The public opening of competitive sealed bids offered by companies or individuals for the right to explore for and develop certain minerals within a defined period of time.

**Lease term** - For oil and gas leases, a period of either 5 years or up to and not to exceed 10 years (the longer leases are awarded when necessary to encourage exploration and development in areas where water is unusually deep or where other unusually adverse conditions exist).

**Nautical mile** - An international unit equal to 6,076.412 American survey feet, or 1,852 meters. It is used for sea and air navigation. (Also known as geographic mile.)

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**Oil-spill contingency plan** - A plan submitted by the oil/gas lessee along with or prior to a submission of a plan of exploration or a plan of development/production that details provisions for fully defined, specific actions to be taken following discovery and notification of the occurrence of an oil spill. OCS Order No. 7 specifies the requirements of this plan.

**Outer Continental Shelf (OCS)** - All submerged lands that comprise the continental margin adjacent to the United States and seaward of State offshore lands (refer to OCS Lands Act). The OCS has been subject to Federal jurisdiction and control since enactment of the Submerged Lands Act of 1953 (43 U.S.C. 1301 and 1302).

**Plug** - Filling a well's bore hole with cement or other impervious material to prevent the flow of water, gas, oil, or other minerals (e.g., liquefied sulfur) from one strata to another when a well is abandoned.

**Plug back** - Filling up the lower section of the well bore to produce from a formation higher up. If the well has been cased, the casing is plugged back with cement to a likely formation and then perforated.

**Proprietary data** - Engineering, production, geologic, and geophysical data and immediate derivatives thereof that cannot be released to the general public because of restrictions imposed by contracts, Federal regulations, or statutes.

**Resource report** - A document once prepared by MMS regional offices that contained all the information now included in the geology report, along with estimates of undiscovered recoverable crude oil and natural gas resources. See **Geology report.**

**Statute mile** - A unit equal to 5,280 feet, or about 1,609 meters. It is used for measuring land distances.

**Summary report** - Document prepared by DOI pursuant to 30 CFR 252.4 that is intended to inform affected State and local governments as to current OCS resource and reserve estimates, projections of magnitude and timing of development, transportation planning, and general location and nature of nearshore and onshore facilities.

**Tract** - A designation assigned for administrative and statutory purposes to a block or combination of blocks that are identified on a leasing map or an official protraction diagram prepared by MMS. A tract may not exceed 5,760 acres unless it is determined that a larger area is necessary to comprise a reasonable economic production unit (see also **Block**).

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